

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: P776093

Luminaire Tested: HCDJBS1525CSD-HCD6TRMB-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B001-HCD6TRMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD6TRMB-2500lm-4000K
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1880.5 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

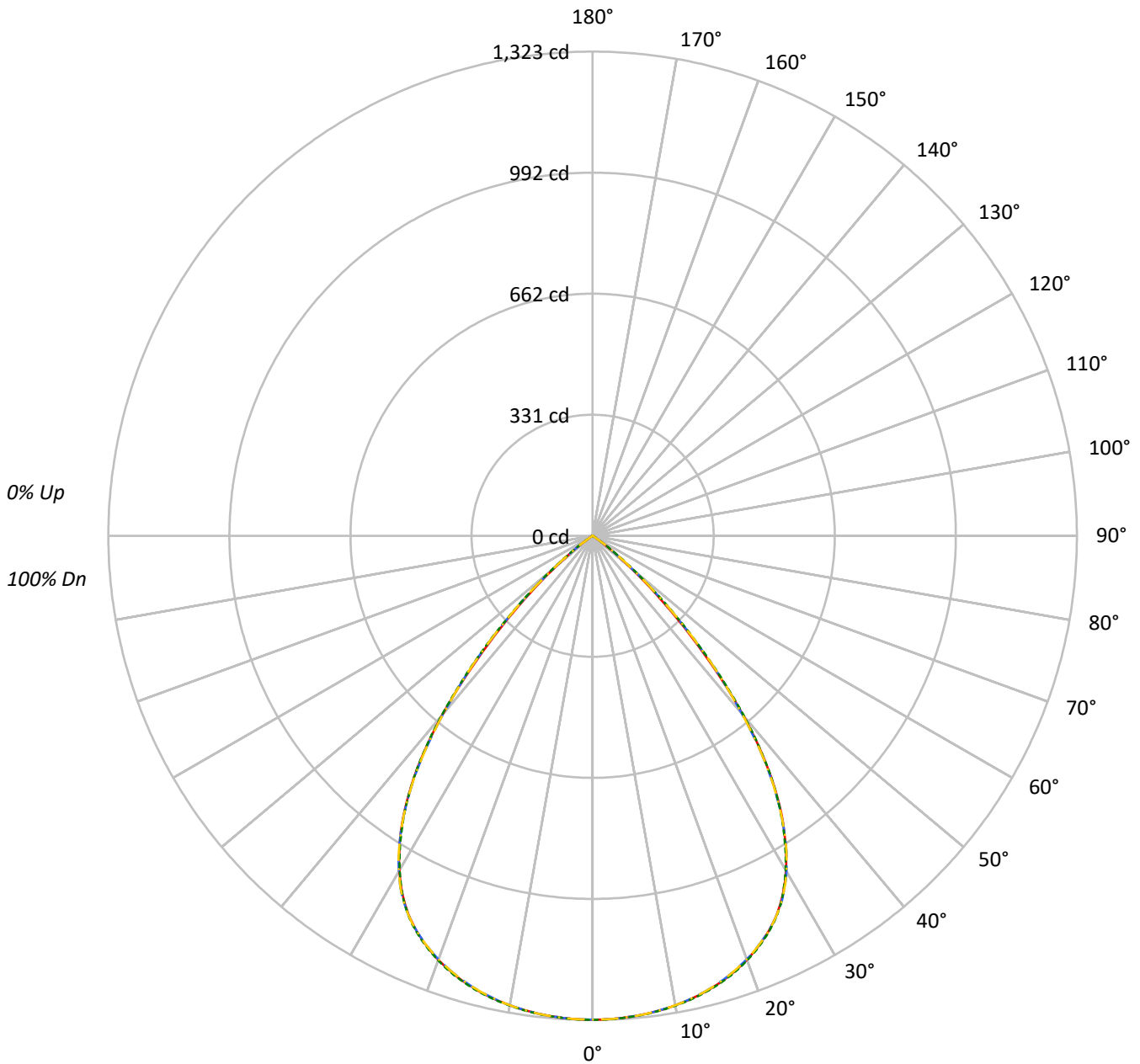
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	94	86	80	75	92	85	79	75	83	78	74	80	76	73	79	75	72	70					70			
5	89	79	73	68	87	78	72	68	77	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59					59			
7	79	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50					50			
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	72494	72494	72494	72494
5°	72496	72523	72496	72523
10°	72510	72566	72510	72566
15°	72429	72515	72429	72515
20°	71931	72019	71931	72019
25°	70552	70692	70552	70692
30°	66833	66738	66833	66738
35°	59247	59060	59247	59060
40°	45693	46072	45693	46072
45°	27313	28670	27313	28670
50°	11292	12980	11292	12980
55°	2189	2571	2189	2571
60°	164	164	164	164
65°	65	65	65	65
70°	48	48	48	48
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 28732 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	6.7
10°-20°	359.8	19.1
20°-30°	534.3	28.4
30°-40°	541.5	28.8
40°-50°	283.4	15.1
50°-60°	35.4	1.9
60°-70°	0.6	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1019.4	54.2
0°-40°	1560.9	83.0
0°-60°	1879.7	100.0
0°-90°	1880.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1880.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1317	1318	1317	1318	1317	125
15°	1276	1278	1276	1278	1276	360
25°	1166	1169	1166	1169	1166	534
35°	885	882	885	882	885	542
45°	352	370	352	370	352	276
55°	23	27	23	27	23	33
65°	0	0	0	0	0	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°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
0.5°	1322.4	1322.2	1322.2	1322.2	1322.7	1322.2	1322.2	1322.2	1322.4	1322.2	1322.2
1°	1322.2	1322.2	1321.9	1321.9	1322.7	1321.9	1321.9	1322.2	1322.2	1322.2	1321.9
1.5°	1321.9	1321.9	1321.7	1321.7	1322.4	1321.7	1321.7	1321.9	1321.9	1321.9	1321.7
2°	1321.7	1321.4	1321.4	1321.4	1321.9	1321.4	1321.4	1321.4	1321.7	1321.4	1321.4
2.5°	1321.2	1320.9	1320.9	1320.9	1321.7	1320.9	1320.9	1320.9	1321.2	1320.9	1320.9
3°	1320.4	1320.4	1320.4	1320.4	1321.2	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4
3.5°	1319.9	1319.9	1319.9	1319.6	1320.4	1319.6	1319.9	1319.9	1319.9	1319.9	1319.9
4°	1319.1	1319.1	1319.1	1319.1	1319.6	1319.1	1319.1	1319.1	1319.1	1319.1	1319.1
4.5°	1318.1	1318.1	1318.1	1318.1	1318.9	1318.1	1318.1	1318.1	1318.1	1318.1	1318.1
5°	1317.4	1317.4	1317.4	1317.4	1317.9	1317.4	1317.4	1317.4	1317.4	1317.4	1317.4
5.5°	1316.3	1316.3	1316.3	1316.3	1317.1	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3
6°	1315.3	1315.1	1315.1	1315.1	1315.8	1315.1	1315.1	1315.1	1315.3	1315.1	1315.1
6.5°	1314.1	1313.8	1314.1	1314.1	1314.8	1314.1	1314.1	1313.8	1314.1	1313.8	1314.1
7°	1312.8	1312.5	1312.5	1312.8	1313.3	1312.8	1312.5	1312.5	1312.8	1312.5	1312.5
7.5°	1311.3	1311.3	1311.3	1311.3	1312.0	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3
8°	1309.7	1309.7	1309.7	1309.7	1310.5	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7
8.5°	1308.2	1308.0	1308.0	1308.2	1309.0	1308.2	1308.0	1308.0	1308.2	1308.0	1308.0
9°	1306.4	1306.4	1306.4	1306.4	1307.2	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4
9.5°	1304.6	1304.4	1304.4	1304.6	1305.4	1304.6	1304.4	1304.4	1304.6	1304.4	1304.4
10°	1302.6	1302.6	1302.4	1302.6	1303.6	1302.6	1302.4	1302.6	1302.6	1302.6	1302.4
10.5°	1300.8	1300.3	1300.3	1300.6	1301.6	1300.6	1300.3	1300.3	1300.8	1300.3	1300.3
11°	1298.5	1298.3	1298.0	1298.5	1299.6	1298.5	1298.0	1298.3	1298.5	1298.3	1298.0
11.5°	1296.3	1295.8	1295.8	1296.3	1297.3	1296.3	1295.8	1295.8	1296.3	1295.8	1295.8
12°	1293.7	1293.5	1293.2	1293.7	1295.0	1293.7	1293.2	1293.5	1293.7	1293.5	1293.2
12.5°	1291.2	1290.7	1290.4	1291.2	1292.4	1291.2	1290.4	1290.7	1291.2	1290.7	1290.4
13°	1288.6	1288.1	1287.6	1288.4	1289.9	1288.4	1287.6	1288.1	1288.6	1288.1	1287.6
13.5°	1285.6	1285.1	1284.8	1285.6	1287.1	1285.6	1284.8	1285.1	1285.6	1285.1	1284.8
14°	1282.8	1282.0	1281.5	1282.5	1284.1	1282.5	1281.5	1282.0	1282.8	1282.0	1281.5
14.5°	1279.5	1279.0	1278.5	1279.2	1281.0	1279.2	1278.5	1279.0	1279.5	1279.0	1278.5
15°	1276.2	1275.4	1274.9	1275.9	1277.7	1275.9	1274.9	1275.4	1276.2	1275.4	1274.9
15.5°	1272.6	1271.9	1271.4	1272.4	1274.1	1272.4	1271.4	1271.9	1272.6	1271.9	1271.4
16°	1269.1	1268.3	1267.5	1268.8	1270.6	1268.8	1267.5	1268.3	1269.1	1268.3	1267.5
16.5°	1265.3	1264.2	1263.7	1265.0	1266.8	1265.0	1263.7	1264.2	1265.3	1264.2	1263.7
17°	1261.2	1260.2	1259.7	1260.9	1262.7	1260.9	1259.7	1260.2	1261.2	1260.2	1259.7
17.5°	1256.9	1256.1	1255.3	1256.6	1258.6	1256.6	1255.3	1256.1	1256.9	1256.1	1255.3
18°	1252.5	1251.5	1250.8	1252.3	1254.1	1252.3	1250.8	1251.5	1252.5	1251.5	1250.8
18.5°	1247.7	1247.0	1246.2	1247.7	1249.5	1247.7	1246.2	1247.0	1247.7	1247.0	1246.2
19°	1243.1	1242.1	1241.4	1242.9	1244.7	1242.9	1241.4	1242.1	1243.1	1242.1	1241.4
19.5°	1238.1	1237.3	1236.3	1237.8	1239.8	1237.8	1236.3	1237.3	1238.1	1237.3	1236.3
20°	1233.0	1232.0	1231.2	1232.7	1234.5	1232.7	1231.2	1232.0	1233.0	1232.0	1231.2
20.5°	1227.4	1226.6	1225.9	1227.4	1229.2	1227.4	1225.9	1226.6	1227.4	1226.6	1225.9
21°	1221.8	1221.0	1220.3	1221.8	1223.3	1221.8	1220.3	1221.0	1221.8	1221.0	1220.3



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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°	1203.2	1202.5	1202.2	1203.5	1205.0	1203.5	1202.2	1202.5	1203.2	1202.5	1202.2
23°	1196.4	1195.9	1195.6	1197.1	1198.2	1197.1	1195.6	1195.9	1196.4	1195.9	1195.6
23.5°	1189.3	1189.0	1189.0	1190.3	1191.3	1190.3	1189.0	1189.0	1189.3	1189.0	1189.0
24°	1182.1	1181.9	1182.1	1182.9	1184.2	1182.9	1182.1	1181.9	1182.1	1181.9	1182.1
24.5°	1174.5	1174.5	1174.8	1175.5	1176.5	1175.5	1174.8	1174.5	1174.5	1174.5	1174.8
25°	1166.4	1166.6	1167.1	1167.7	1168.7	1167.7	1167.1	1166.6	1166.4	1166.6	1167.1
25.5°	1158.0	1158.2	1159.0	1159.0	1160.0	1159.0	1159.0	1158.2	1158.0	1158.2	1159.0
26°	1148.8	1149.4	1150.1	1150.1	1151.1	1150.1	1150.1	1149.4	1148.8	1149.4	1150.1
26.5°	1139.4	1140.2	1141.2	1140.7	1141.2	1140.7	1141.2	1140.2	1139.4	1140.2	1141.2
27°	1129.3	1130.3	1131.3	1130.5	1131.1	1130.5	1131.3	1130.3	1129.3	1130.3	1131.3
27.5°	1118.6	1119.9	1120.9	1119.9	1119.9	1119.9	1120.9	1119.9	1118.6	1119.9	1120.9
28°	1107.2	1108.7	1110.0	1108.4	1107.7	1108.4	1110.0	1108.7	1107.2	1108.7	1110.0
28.5°	1095.2	1097.0	1098.3	1096.5	1095.2	1096.5	1098.3	1097.0	1095.2	1097.0	1098.3
29°	1082.8	1084.5	1085.8	1084.0	1082.3	1084.0	1085.8	1084.5	1082.8	1084.5	1085.8
29.5°	1069.5	1071.6	1072.8	1070.8	1068.5	1070.8	1072.8	1071.6	1069.5	1071.6	1072.8
30°	1055.8	1057.3	1058.9	1056.6	1054.3	1056.6	1058.9	1057.3	1055.8	1057.3	1058.9
30.5°	1041.6	1043.1	1044.4	1041.8	1039.3	1041.8	1044.4	1043.1	1041.6	1043.1	1044.4
31°	1026.6	1027.9	1029.1	1026.8	1024.0	1026.8	1029.1	1027.9	1026.6	1027.9	1029.1
31.5°	1011.1	1011.8	1013.1	1010.6	1008.0	1010.6	1013.1	1011.8	1011.1	1011.8	1013.1
32°	995.1	995.1	996.3	993.8	991.8	993.8	996.3	995.1	995.1	995.1	996.3
32.5°	978.3	978.0	978.8	976.3	974.7	976.3	978.8	978.0	978.3	978.0	978.8
33°	961.0	960.0	960.8	958.2	957.7	958.2	960.8	960.0	961.0	960.0	960.8
33.5°	943.5	941.7	941.9	939.7	939.4	939.7	941.9	941.7	943.5	941.7	941.9
34°	924.7	922.6	922.6	920.1	921.4	920.1	922.6	922.6	924.7	922.6	922.6
34.5°	905.3	903.1	902.6	900.0	902.3	900.0	902.6	903.1	905.3	903.1	902.6
35°	885.3	882.7	881.7	879.9	882.5	879.9	881.7	882.7	885.3	882.7	881.7
35.5°	864.2	862.1	860.4	859.3	862.1	859.3	860.4	862.1	864.2	862.1	860.4
36°	842.3	840.8	838.2	837.7	841.0	837.7	838.2	840.8	842.3	840.8	838.2
36.5°	819.7	818.4	815.4	815.6	819.4	815.6	815.4	818.4	819.7	818.4	815.4
37°	796.1	795.3	791.7	793.0	796.6	793.0	791.7	795.3	796.1	795.3	791.7
37.5°	771.7	771.4	767.1	769.4	772.7	769.4	767.1	771.4	771.7	771.4	767.1
38°	746.7	746.5	741.7	745.0	748.3	745.0	741.7	746.5	746.7	746.5	741.7
38.5°	720.8	720.6	715.2	719.8	723.1	719.8	715.2	720.6	720.8	720.6	715.2
39°	694.4	693.6	688.5	694.4	697.4	694.4	688.5	693.6	694.4	693.6	688.5
39.5°	667.2	665.9	661.3	668.0	671.0	668.0	661.3	665.9	667.2	665.9	661.3
40°	638.5	637.5	633.6	640.5	643.8	640.5	633.6	637.5	638.5	637.5	633.6
40.5°	610.0	608.7	606.2	612.8	615.6	612.8	606.2	608.7	610.0	608.7	606.2
41°	580.8	580.0	579.5	585.1	587.6	585.1	579.5	580.0	580.8	580.0	579.5
41.5°	551.8	551.0	552.8	557.4	559.7	557.4	552.8	551.0	551.8	551.0	552.8
42°	522.3	522.6	526.4	529.4	532.2	529.4	526.4	522.6	522.3	522.6	526.4
42.5°	493.1	494.4	499.7	502.2	504.8	502.2	499.7	494.4	493.1	494.4	499.7
43°	463.9	466.4	473.0	475.3	477.1	475.3	473.0	466.4	463.9	466.4	473.0
43.5°	435.1	438.7	446.3	448.6	449.6	448.6	446.3	438.7	435.1	438.7	446.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	352.3	357.4	367.5	370.6	369.8	370.6	367.5	357.4	352.3	357.4	367.5
45.5°	326.1	331.4	342.1	346.2	344.1	346.2	342.1	331.4	326.1	331.4	342.1
46°	300.4	306.8	318.0	322.0	319.0	322.0	318.0	306.8	300.4	306.8	318.0
46.5°	277.0	282.6	293.8	297.6	294.8	297.6	293.8	282.6	277.0	282.6	293.8
47°	253.7	259.0	269.9	274.2	271.2	274.2	269.9	259.0	253.7	259.0	269.9
47.5°	231.0	236.1	246.3	251.1	248.8	251.1	246.3	236.1	231.0	236.1	246.3
48°	208.7	214.0	223.9	229.3	227.7	229.3	223.9	214.0	208.7	214.0	223.9
48.5°	187.3	193.2	202.6	208.4	207.1	208.4	202.6	193.2	187.3	193.2	202.6
49°	167.8	173.3	182.0	188.3	188.6	188.3	182.0	173.3	167.8	173.3	182.0
49.5°	149.7	154.0	162.2	169.3	170.3	169.3	162.2	154.0	149.7	154.0	162.2
50°	132.4	136.2	143.1	150.7	152.2	150.7	143.1	136.2	132.4	136.2	143.1
50.5°	116.2	119.2	125.1	132.9	134.7	132.9	125.1	119.2	116.2	119.2	125.1
51°	101.2	104.0	109.5	116.4	118.2	116.4	109.5	104.0	101.2	104.0	109.5
51.5°	87.7	90.0	94.8	100.9	103.7	100.9	94.8	90.0	87.7	90.0	94.8
52°	75.0	77.0	81.1	86.4	89.5	86.4	81.1	77.0	75.0	77.0	81.1
52.5°	64.3	64.8	67.9	72.9	75.7	72.9	67.9	64.8	64.3	64.8	67.9
53°	54.4	54.1	56.7	61.5	63.5	61.5	56.7	54.1	54.4	54.1	56.7
53.5°	44.7	45.2	47.3	51.6	52.4	51.6	47.3	45.2	44.7	45.2	47.3
54°	36.3	37.1	38.4	42.2	42.2	42.2	38.4	37.1	36.3	37.1	38.4
54.5°	29.2	29.7	30.2	33.6	33.3	33.6	30.2	29.7	29.2	29.7	30.2
55°	22.9	22.6	23.1	25.9	26.9	25.9	23.1	22.6	22.9	22.6	23.1
55.5°	16.8	16.8	17.5	19.3	20.8	19.3	17.5	16.8	16.8	16.8	17.5
56°	11.2	11.9	13.2	14.7	16.0	14.7	13.2	11.9	11.2	11.9	13.2
56.5°	7.6	7.9	9.7	10.4	11.4	10.4	9.7	7.9	7.6	7.9	9.7
57°	6.1	5.6	6.4	6.9	6.9	6.9	6.4	5.6	6.1	5.6	6.4
57.5°	4.8	4.3	4.6	5.1	4.6	5.1	4.6	4.3	4.8	4.3	4.6
58°	3.8	3.6	3.8	4.1	3.3	4.1	3.8	3.6	3.8	3.6	3.8
58.5°	2.5	2.8	3.1	3.3	2.8	3.3	3.1	2.8	2.5	2.8	3.1
59°	2.3	2.3	2.3	2.5	2.3	2.5	2.3	2.3	2.3	2.3	2.3
59.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
60.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
61°	1.0	1.0	1.0	1.3	1.0	1.3	1.0	1.0	1.0	1.0	1.0
61.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	1.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
63°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
63.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
64°	0.5	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776093

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMB-2500lm-4000K

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	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
73.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
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: P776093

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMB-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: P776093

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
0.5°	1322.2	1322.7	1322.2	1322.2	1322.2	1322.4
1°	1321.9	1322.7	1321.9	1321.9	1322.2	1322.2
1.5°	1321.7	1322.4	1321.7	1321.7	1321.9	1321.9
2°	1321.4	1321.9	1321.4	1321.4	1321.4	1321.7
2.5°	1320.9	1321.7	1320.9	1320.9	1320.9	1321.2
3°	1320.4	1321.2	1320.4	1320.4	1320.4	1320.4
3.5°	1319.6	1320.4	1319.6	1319.9	1319.9	1319.9
4°	1319.1	1319.6	1319.1	1319.1	1319.1	1319.1
4.5°	1318.1	1318.9	1318.1	1318.1	1318.1	1318.1
5°	1317.4	1317.9	1317.4	1317.4	1317.4	1317.4
5.5°	1316.3	1317.1	1316.3	1316.3	1316.3	1316.3
6°	1315.1	1315.8	1315.1	1315.1	1315.1	1315.3
6.5°	1314.1	1314.8	1314.1	1314.1	1313.8	1314.1
7°	1312.8	1313.3	1312.8	1312.5	1312.5	1312.8
7.5°	1311.3	1312.0	1311.3	1311.3	1311.3	1311.3
8°	1309.7	1310.5	1309.7	1309.7	1309.7	1309.7
8.5°	1308.2	1309.0	1308.2	1308.0	1308.0	1308.2
9°	1306.4	1307.2	1306.4	1306.4	1306.4	1306.4
9.5°	1304.6	1305.4	1304.6	1304.4	1304.4	1304.6
10°	1302.6	1303.6	1302.6	1302.4	1302.6	1302.6
10.5°	1300.6	1301.6	1300.6	1300.3	1300.3	1300.8
11°	1298.5	1299.6	1298.5	1298.0	1298.3	1298.5
11.5°	1296.3	1297.3	1296.3	1295.8	1295.8	1296.3
12°	1293.7	1295.0	1293.7	1293.2	1293.5	1293.7
12.5°	1291.2	1292.4	1291.2	1290.4	1290.7	1291.2
13°	1288.4	1289.9	1288.4	1287.6	1288.1	1288.6
13.5°	1285.6	1287.1	1285.6	1284.8	1285.1	1285.6
14°	1282.5	1284.1	1282.5	1281.5	1282.0	1282.8
14.5°	1279.2	1281.0	1279.2	1278.5	1279.0	1279.5
15°	1275.9	1277.7	1275.9	1274.9	1275.4	1276.2
15.5°	1272.4	1274.1	1272.4	1271.4	1271.9	1272.6
16°	1268.8	1270.6	1268.8	1267.5	1268.3	1269.1
16.5°	1265.0	1266.8	1265.0	1263.7	1264.2	1265.3
17°	1260.9	1262.7	1260.9	1259.7	1260.2	1261.2
17.5°	1256.6	1258.6	1256.6	1255.3	1256.1	1256.9
18°	1252.3	1254.1	1252.3	1250.8	1251.5	1252.5
18.5°	1247.7	1249.5	1247.7	1246.2	1247.0	1247.7
19°	1242.9	1244.7	1242.9	1241.4	1242.1	1243.1
19.5°	1237.8	1239.8	1237.8	1236.3	1237.3	1238.1
20°	1232.7	1234.5	1232.7	1231.2	1232.0	1233.0
20.5°	1227.4	1229.2	1227.4	1225.9	1226.6	1227.4
21°	1221.8	1223.3	1221.8	1220.3	1221.0	1221.8



TEST NUMBER: P776093

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1203.5	1205.0	1203.5	1202.2	1202.5	1203.2
23°	1197.1	1198.2	1197.1	1195.6	1195.9	1196.4
23.5°	1190.3	1191.3	1190.3	1189.0	1189.0	1189.3
24°	1182.9	1184.2	1182.9	1182.1	1181.9	1182.1
24.5°	1175.5	1176.5	1175.5	1174.8	1174.5	1174.5
25°	1167.7	1168.7	1167.7	1167.1	1166.6	1166.4
25.5°	1159.0	1160.0	1159.0	1159.0	1158.2	1158.0
26°	1150.1	1151.1	1150.1	1150.1	1149.4	1148.8
26.5°	1140.7	1141.2	1140.7	1141.2	1140.2	1139.4
27°	1130.5	1131.1	1130.5	1131.3	1130.3	1129.3
27.5°	1119.9	1119.9	1119.9	1120.9	1119.9	1118.6
28°	1108.4	1107.7	1108.4	1110.0	1108.7	1107.2
28.5°	1096.5	1095.2	1096.5	1098.3	1097.0	1095.2
29°	1084.0	1082.3	1084.0	1085.8	1084.5	1082.8
29.5°	1070.8	1068.5	1070.8	1072.8	1071.6	1069.5
30°	1056.6	1054.3	1056.6	1058.9	1057.3	1055.8
30.5°	1041.8	1039.3	1041.8	1044.4	1043.1	1041.6
31°	1026.8	1024.0	1026.8	1029.1	1027.9	1026.6
31.5°	1010.6	1008.0	1010.6	1013.1	1011.8	1011.1
32°	993.8	991.8	993.8	996.3	995.1	995.1
32.5°	976.3	974.7	976.3	978.8	978.0	978.3
33°	958.2	957.7	958.2	960.8	960.0	961.0
33.5°	939.7	939.4	939.7	941.9	941.7	943.5
34°	920.1	921.4	920.1	922.6	922.6	924.7
34.5°	900.0	902.3	900.0	902.6	903.1	905.3
35°	879.9	882.5	879.9	881.7	882.7	885.3
35.5°	859.3	862.1	859.3	860.4	862.1	864.2
36°	837.7	841.0	837.7	838.2	840.8	842.3
36.5°	815.6	819.4	815.6	815.4	818.4	819.7
37°	793.0	796.6	793.0	791.7	795.3	796.1
37.5°	769.4	772.7	769.4	767.1	771.4	771.7
38°	745.0	748.3	745.0	741.7	746.5	746.7
38.5°	719.8	723.1	719.8	715.2	720.6	720.8
39°	694.4	697.4	694.4	688.5	693.6	694.4
39.5°	668.0	671.0	668.0	661.3	665.9	667.2
40°	640.5	643.8	640.5	633.6	637.5	638.5
40.5°	612.8	615.6	612.8	606.2	608.7	610.0
41°	585.1	587.6	585.1	579.5	580.0	580.8
41.5°	557.4	559.7	557.4	552.8	551.0	551.8
42°	529.4	532.2	529.4	526.4	522.6	522.3
42.5°	502.2	504.8	502.2	499.7	494.4	493.1
43°	475.3	477.1	475.3	473.0	466.4	463.9
43.5°	448.6	449.6	448.6	446.3	438.7	435.1



TEST NUMBER: P776093

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	370.6	369.8	370.6	367.5	357.4	352.3
45.5°	346.2	344.1	346.2	342.1	331.4	326.1
46°	322.0	319.0	322.0	318.0	306.8	300.4
46.5°	297.6	294.8	297.6	293.8	282.6	277.0
47°	274.2	271.2	274.2	269.9	259.0	253.7
47.5°	251.1	248.8	251.1	246.3	236.1	231.0
48°	229.3	227.7	229.3	223.9	214.0	208.7
48.5°	208.4	207.1	208.4	202.6	193.2	187.3
49°	188.3	188.6	188.3	182.0	173.3	167.8
49.5°	169.3	170.3	169.3	162.2	154.0	149.7
50°	150.7	152.2	150.7	143.1	136.2	132.4
50.5°	132.9	134.7	132.9	125.1	119.2	116.2
51°	116.4	118.2	116.4	109.5	104.0	101.2
51.5°	100.9	103.7	100.9	94.8	90.0	87.7
52°	86.4	89.5	86.4	81.1	77.0	75.0
52.5°	72.9	75.7	72.9	67.9	64.8	64.3
53°	61.5	63.5	61.5	56.7	54.1	54.4
53.5°	51.6	52.4	51.6	47.3	45.2	44.7
54°	42.2	42.2	42.2	38.4	37.1	36.3
54.5°	33.6	33.3	33.6	30.2	29.7	29.2
55°	25.9	26.9	25.9	23.1	22.6	22.9
55.5°	19.3	20.8	19.3	17.5	16.8	16.8
56°	14.7	16.0	14.7	13.2	11.9	11.2
56.5°	10.4	11.4	10.4	9.7	7.9	7.6
57°	6.9	6.9	6.9	6.4	5.6	6.1
57.5°	5.1	4.6	5.1	4.6	4.3	4.8
58°	4.1	3.3	4.1	3.8	3.6	3.8
58.5°	3.3	2.8	3.3	3.1	2.8	2.5
59°	2.5	2.3	2.5	2.3	2.3	2.3
59.5°	1.8	1.8	1.8	1.8	1.8	1.8
60°	1.5	1.5	1.5	1.5	1.5	1.5
60.5°	1.3	1.3	1.3	1.3	1.3	1.3
61°	1.3	1.0	1.3	1.0	1.0	1.0
61.5°	1.0	1.0	1.0	1.0	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8
63°	0.8	0.8	0.8	0.8	0.8	0.8
63.5°	0.8	0.8	0.8	0.8	0.8	0.8
64°	0.5	0.8	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5
65.5°	0.5	0.5	0.5	0.5	0.5	0.5
66°	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P776093

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRMB-2500lm-4000K

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°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.0
73.5°	0.3	0.3	0.3	0.3	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: P776093

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMB-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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1215.9	1214.9	1214.4	1215.9	1217.5	1215.9	1214.4	1214.9	1215.9	1214.9	1214.4
22°	1209.6	1209.1	1208.3	1209.8	1211.1	1209.8	1208.3	1209.1	1209.6	1209.1	1208.3



44°	406.7	411.2	419.6	422.2	422.7	422.2	419.6	411.2	406.7	411.2	419.6
44.5°	379.2	384.0	393.5	396.2	396.0	396.2	393.5	384.0	379.2	384.0	393.5



66.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.5



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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Scaled Data Report





21.5°	1215.9	1217.5	1215.9	1214.4	1214.9	1215.9
22°	1209.8	1211.1	1209.8	1208.3	1209.1	1209.6



44°	422.2	422.7	422.2	419.6	411.2	406.7
44.5°	396.2	396.0	396.2	393.5	384.0	379.2

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66.5°	0.5	0.5	0.5	0.5	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.3	0.3

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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)