

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: P776165

Luminaire Tested: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B065-HCD82TRMB)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K
Description: 8 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

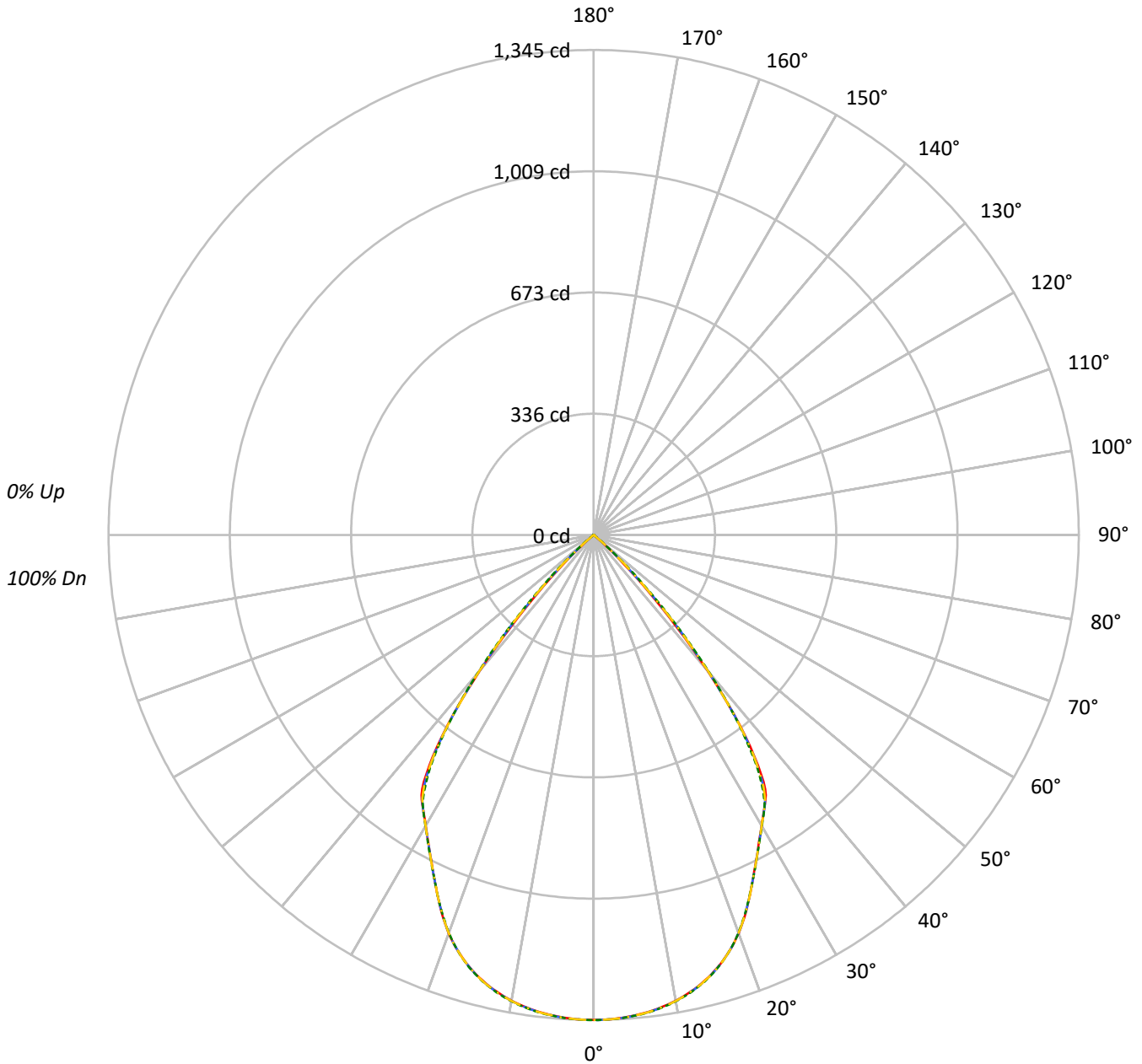
Lumens per Lamp: N/A
Luminaire Lumens: 1600.1 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.08
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776165
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P776165

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	85	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57	57	57	57
8	76	66	60	55	75	66	60	55	64	59	55	63	58	55	62	58	55	53	53	53	53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	49	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	41075	41075	41075	41075
5°	40978	41015	40978	41015
10°	40655	40717	40655	40717
15°	39873	39911	39873	39911
20°	38182	38143	38182	38143
25°	35270	35300	35270	35300
30°	32831	32884	32831	32884
35°	30141	29526	30141	29526
40°	19449	19987	19449	19987
45°	7137	8583	7137	8583
50°	817	1311	817	1311
55°	128	128	128	128
60°	73	73	73	73
65°	51	51	51	51
70°	45	45	45	45
75°	24	24	24	24
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8583 cd/sqm



TEST NUMBER: P776165

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	7.9
10°-20°	353.9	22.1
20°-30°	482.4	30.1
30°-40°	476.3	29.8
40°-50°	156.0	9.7
50°-60°	3.7	0.2
60°-70°	0.8	0.0
70°-80°	0.2	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°	963.2	60.2
0°-40°	1439.5	90.0
0°-60°	1599.1	99.9
0°-90°	1600.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1345	1345	1345	1345	1345	
5°	1337	1338	1337	1338	1337	127
15°	1262	1263	1262	1263	1262	354
25°	1047	1048	1047	1048	1047	482
35°	809	792	809	792	809	478
45°	165	199	165	199	165	146
55°	2	2	2	2	2	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776165

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
0.5°	1345.1	1345.1	1345.4	1345.1	1345.4	1345.1	1345.4	1345.1	1345.1	1345.1	1345.4
1°	1344.9	1344.9	1345.1	1344.9	1345.4	1344.9	1345.1	1344.9	1344.9	1344.9	1345.1
1.5°	1344.4	1344.6	1344.6	1344.6	1344.9	1344.6	1344.6	1344.6	1344.4	1344.6	1344.6
2°	1343.9	1343.9	1344.1	1344.1	1344.4	1344.1	1344.1	1343.9	1343.9	1343.9	1344.1
2.5°	1343.2	1343.4	1343.4	1343.4	1343.7	1343.4	1343.4	1343.4	1343.2	1343.4	1343.4
3°	1342.4	1342.4	1342.7	1342.7	1342.9	1342.7	1342.7	1342.4	1342.4	1342.4	1342.7
3.5°	1341.5	1341.5	1341.7	1341.7	1342.0	1341.7	1341.7	1341.5	1341.5	1341.5	1341.7
4°	1340.3	1340.3	1340.5	1340.5	1341.0	1340.5	1340.5	1340.3	1340.3	1340.3	1340.5
4.5°	1338.8	1338.8	1339.1	1339.3	1339.5	1339.3	1339.1	1338.8	1338.8	1338.8	1339.1
5°	1337.1	1337.4	1337.6	1337.8	1338.3	1337.8	1337.6	1337.4	1337.1	1337.4	1337.6
5.5°	1335.7	1335.7	1335.9	1336.1	1336.6	1336.1	1335.9	1335.7	1335.7	1335.7	1335.9
6°	1333.7	1333.7	1334.2	1334.4	1334.9	1334.4	1334.2	1333.7	1333.7	1333.7	1334.2
6.5°	1331.5	1331.8	1332.3	1332.5	1333.0	1332.5	1332.3	1331.8	1331.5	1331.8	1332.3
7°	1329.4	1329.4	1330.1	1330.3	1330.8	1330.3	1330.1	1329.4	1329.4	1329.4	1330.1
7.5°	1326.9	1326.9	1327.7	1327.9	1328.4	1327.9	1327.7	1326.9	1326.9	1326.9	1327.7
8°	1324.3	1324.5	1325.0	1325.5	1326.0	1325.5	1325.0	1324.5	1324.3	1324.5	1325.0
8.5°	1321.4	1321.6	1322.1	1322.6	1323.1	1322.6	1322.1	1321.6	1321.4	1321.6	1322.1
9°	1318.2	1318.4	1319.2	1319.7	1320.1	1319.7	1319.2	1318.4	1318.2	1318.4	1319.2
9.5°	1314.8	1315.1	1315.8	1316.5	1317.0	1316.5	1315.8	1315.1	1314.8	1315.1	1315.8
10°	1311.4	1311.7	1312.1	1312.9	1313.4	1312.9	1312.1	1311.7	1311.4	1311.7	1312.1
10.5°	1307.5	1307.8	1308.5	1309.2	1309.7	1309.2	1308.5	1307.8	1307.5	1307.8	1308.5
11°	1303.7	1303.9	1304.6	1305.1	1305.6	1305.1	1304.6	1303.9	1303.7	1303.9	1304.6
11.5°	1299.3	1299.5	1300.3	1300.7	1301.5	1300.7	1300.3	1299.5	1299.3	1299.5	1300.3
12°	1294.9	1294.9	1295.7	1296.4	1296.9	1296.4	1295.7	1294.9	1294.9	1294.9	1295.7
12.5°	1290.1	1290.1	1290.8	1291.5	1292.0	1291.5	1290.8	1290.1	1290.1	1290.1	1290.8
13°	1285.0	1285.2	1285.7	1286.4	1286.7	1286.4	1285.7	1285.2	1285.0	1285.2	1285.7
13.5°	1279.4	1279.7	1280.4	1280.9	1281.4	1280.9	1280.4	1279.7	1279.4	1279.7	1280.4
14°	1273.8	1274.1	1274.6	1275.1	1275.5	1275.1	1274.6	1274.1	1273.8	1274.1	1274.6
14.5°	1267.8	1268.0	1268.5	1269.0	1269.5	1269.0	1268.5	1268.0	1267.8	1268.0	1268.5
15°	1261.5	1261.5	1262.0	1262.4	1262.7	1262.4	1262.0	1261.5	1261.5	1261.5	1262.0
15.5°	1254.7	1254.7	1255.2	1255.7	1255.9	1255.7	1255.2	1254.7	1254.7	1254.7	1255.2
16°	1247.4	1247.7	1247.9	1248.1	1248.6	1248.1	1247.9	1247.7	1247.4	1247.7	1247.9
16.5°	1240.1	1240.1	1240.4	1240.6	1240.9	1240.6	1240.4	1240.1	1240.1	1240.1	1240.4
17°	1232.1	1232.1	1232.4	1232.6	1232.9	1232.6	1232.4	1232.1	1232.1	1232.1	1232.4
17.5°	1223.7	1223.7	1223.9	1223.9	1224.1	1223.9	1223.9	1223.7	1223.7	1223.7	1223.9
18°	1215.2	1214.9	1214.9	1214.9	1215.2	1214.9	1214.9	1214.9	1215.2	1214.9	1214.9
18.5°	1205.7	1205.7	1205.5	1205.5	1205.5	1205.5	1205.5	1205.7	1205.7	1205.7	1205.5
19°	1196.0	1196.0	1195.8	1195.5	1195.5	1195.5	1195.8	1196.0	1196.0	1196.0	1195.8
19.5°	1185.8	1185.6	1185.4	1185.1	1185.1	1185.1	1185.4	1185.6	1185.8	1185.6	1185.4
20°	1175.2	1174.9	1174.7	1174.2	1174.0	1174.2	1174.7	1174.9	1175.2	1174.9	1174.7
20.5°	1163.8	1163.5	1163.1	1162.6	1162.3	1162.6	1163.1	1163.5	1163.8	1163.5	1163.1
21°	1151.9	1151.9	1151.4	1150.5	1150.0	1150.5	1151.4	1151.9	1151.9	1151.9	1151.4



TEST NUMBER: P776165

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1113.9	1113.9	1113.4	1112.6	1112.6	1112.6	1113.4	1113.9	1113.9	1113.9	1113.4
23°	1100.5	1100.5	1100.3	1099.6	1099.6	1099.6	1100.3	1100.5	1100.5	1100.5	1100.3
23.5°	1086.9	1087.2	1086.9	1086.5	1086.5	1086.5	1086.9	1087.2	1086.9	1087.2	1086.9
24°	1073.4	1073.6	1073.6	1073.4	1073.6	1073.4	1073.6	1073.6	1073.4	1073.6	1073.6
24.5°	1060.3	1060.3	1060.5	1060.3	1060.8	1060.3	1060.5	1060.3	1060.3	1060.3	1060.5
25°	1047.0	1047.2	1047.4	1047.4	1047.9	1047.4	1047.4	1047.2	1047.0	1047.2	1047.4
25.5°	1034.3	1034.3	1034.6	1034.8	1035.3	1034.8	1034.6	1034.3	1034.3	1034.3	1034.6
26°	1021.7	1022.0	1022.2	1022.5	1023.0	1022.5	1022.2	1022.0	1021.7	1022.0	1022.2
26.5°	1009.4	1009.6	1009.9	1010.1	1010.8	1010.1	1009.9	1009.6	1009.4	1009.6	1009.9
27°	997.5	997.5	998.0	998.0	998.7	998.0	998.0	997.5	997.5	997.5	998.0
27.5°	985.6	985.9	986.1	986.6	987.1	986.6	986.1	985.9	985.6	985.9	986.1
28°	974.0	974.2	974.7	975.0	975.7	975.0	974.7	974.2	974.0	974.2	974.7
28.5°	962.8	963.3	963.6	963.8	964.5	963.8	963.6	963.3	962.8	963.3	963.6
29°	952.2	952.4	952.7	952.9	953.6	952.9	952.7	952.4	952.2	952.4	952.7
29.5°	941.5	941.7	942.2	942.5	943.0	942.5	942.2	941.7	941.5	941.7	942.2
30°	931.3	931.3	931.8	932.1	932.8	932.1	931.8	931.3	931.3	931.3	931.8
30.5°	921.1	921.4	921.6	922.1	922.6	922.1	921.6	921.4	921.1	921.4	921.6
31°	911.4	911.7	912.2	912.4	913.1	912.4	912.2	911.7	911.4	911.7	912.2
31.5°	902.2	902.5	902.5	902.7	903.2	902.7	902.5	902.5	902.2	902.5	902.5
32°	893.3	893.3	893.3	893.0	893.5	893.0	893.3	893.3	893.3	893.3	893.3
32.5°	884.5	884.3	883.8	882.8	881.9	882.8	883.8	884.3	884.5	884.3	883.8
33°	875.1	874.6	872.2	869.8	867.1	869.8	872.2	874.6	875.1	874.6	872.2
33.5°	864.9	862.5	857.9	853.8	850.4	853.8	857.9	862.5	864.9	862.5	857.9
34°	850.4	847.2	840.9	835.6	831.9	835.6	840.9	847.2	850.4	847.2	840.9
34.5°	831.2	828.5	821.5	816.4	812.8	816.4	821.5	828.5	831.2	828.5	821.5
35°	808.7	806.0	799.7	795.6	792.2	795.6	799.7	806.0	808.7	806.0	799.7
35.5°	783.9	782.5	776.7	772.3	768.9	772.3	776.7	782.5	783.9	782.5	776.7
36°	757.5	756.3	751.5	747.1	743.5	747.1	751.5	756.3	757.5	756.3	751.5
36.5°	729.4	728.4	724.3	719.7	715.8	719.7	724.3	728.4	729.4	728.4	724.3
37°	697.9	697.2	694.7	691.3	687.5	691.3	694.7	697.2	697.9	697.2	694.7
37.5°	665.4	664.4	663.5	661.3	658.1	661.3	663.5	664.4	665.4	664.4	663.5
38°	631.0	629.5	630.0	629.8	628.3	629.8	630.0	629.5	631.0	629.5	630.0
38.5°	597.5	595.3	595.8	597.0	598.3	597.0	595.8	595.3	597.5	595.3	595.8
39°	561.4	560.7	561.2	564.1	567.2	564.1	561.2	560.7	561.4	560.7	561.2
39.5°	525.5	526.0	527.0	530.6	535.0	530.6	527.0	526.0	525.5	526.0	527.0
40°	488.0	490.4	492.6	497.4	501.5	497.4	492.6	490.4	488.0	490.4	492.6
40.5°	451.8	455.2	459.4	464.7	468.3	464.7	459.4	455.2	451.8	455.2	459.4
41°	414.8	419.4	426.1	432.2	435.8	432.2	426.1	419.4	414.8	419.4	426.1
41.5°	379.6	384.5	392.7	400.0	403.4	400.0	392.7	384.5	379.6	384.5	392.7
42°	345.2	349.5	359.2	368.0	371.1	368.0	359.2	349.5	345.2	349.5	359.2
42.5°	311.7	317.1	328.0	336.7	339.6	336.7	328.0	317.1	311.7	317.1	328.0
43°	279.5	285.6	296.5	305.7	308.8	305.7	296.5	285.6	279.5	285.6	296.5
43.5°	249.4	255.3	265.9	275.4	279.7	275.4	265.9	255.3	249.4	255.3	265.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	165.3	170.4	181.6	192.7	198.8	192.7	181.6	170.4	165.3	170.4	181.6
45.5°	139.9	145.9	157.3	169.0	174.5	169.0	157.3	145.9	139.9	145.9	157.3
46°	117.6	122.7	135.5	146.9	153.7	146.9	135.5	122.7	117.6	122.7	135.5
46.5°	97.4	102.8	114.9	125.8	133.1	125.8	114.9	102.8	97.4	102.8	114.9
47°	81.7	84.8	95.0	105.9	112.2	105.9	95.0	84.8	81.7	84.8	95.0
47.5°	66.7	68.6	77.8	87.3	91.4	87.3	77.8	68.6	66.7	68.6	77.8
48°	53.1	55.0	62.1	70.5	74.9	70.5	62.1	55.0	53.1	55.0	62.1
48.5°	42.7	43.6	49.7	56.0	59.9	56.0	49.7	43.6	42.7	43.6	49.7
49°	32.0	33.2	38.3	44.4	46.5	44.4	38.3	33.2	32.0	33.2	38.3
49.5°	24.2	24.7	28.1	33.5	36.4	33.5	28.1	24.7	24.2	24.7	28.1
50°	17.2	16.7	21.3	26.2	27.6	26.2	21.3	16.7	17.2	16.7	21.3
50.5°	10.7	11.6	15.0	19.6	22.3	19.6	15.0	11.6	10.7	11.6	15.0
51°	5.8	7.8	10.4	13.1	17.0	13.1	10.4	7.8	5.8	7.8	10.4
51.5°	4.6	4.8	6.8	8.5	12.6	8.5	6.8	4.8	4.6	4.8	6.8
52°	3.9	4.1	4.4	5.3	8.2	5.3	4.4	4.1	3.9	4.1	4.4
52.5°	3.2	3.6	3.6	4.1	3.9	4.1	3.6	3.6	3.2	3.6	3.6
53°	3.2	3.2	3.4	3.4	3.2	3.4	3.4	3.2	3.2	3.2	3.4
53.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
54°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
54.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
55.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
56°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
56.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
57°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
57.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
58°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
58.5°	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.7	1.7
59°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
60.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
61°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
63°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
63.5°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0	1.0
64°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
64.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
66°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P776165

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5
71°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
78°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776165
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776165

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
0.5°	1345.1	1345.4	1345.1	1345.4	1345.1	1345.1
1°	1344.9	1345.4	1344.9	1345.1	1344.9	1344.9
1.5°	1344.6	1344.9	1344.6	1344.6	1344.6	1344.4
2°	1344.1	1344.4	1344.1	1344.1	1343.9	1343.9
2.5°	1343.4	1343.7	1343.4	1343.4	1343.4	1343.2
3°	1342.7	1342.9	1342.7	1342.7	1342.4	1342.4
3.5°	1341.7	1342.0	1341.7	1341.7	1341.5	1341.5
4°	1340.5	1341.0	1340.5	1340.5	1340.3	1340.3
4.5°	1339.3	1339.5	1339.3	1339.1	1338.8	1338.8
5°	1337.8	1338.3	1337.8	1337.6	1337.4	1337.1
5.5°	1336.1	1336.6	1336.1	1335.9	1335.7	1335.7
6°	1334.4	1334.9	1334.4	1334.2	1333.7	1333.7
6.5°	1332.5	1333.0	1332.5	1332.3	1331.8	1331.5
7°	1330.3	1330.8	1330.3	1330.1	1329.4	1329.4
7.5°	1327.9	1328.4	1327.9	1327.7	1326.9	1326.9
8°	1325.5	1326.0	1325.5	1325.0	1324.5	1324.3
8.5°	1322.6	1323.1	1322.6	1322.1	1321.6	1321.4
9°	1319.7	1320.1	1319.7	1319.2	1318.4	1318.2
9.5°	1316.5	1317.0	1316.5	1315.8	1315.1	1314.8
10°	1312.9	1313.4	1312.9	1312.1	1311.7	1311.4
10.5°	1309.2	1309.7	1309.2	1308.5	1307.8	1307.5
11°	1305.1	1305.6	1305.1	1304.6	1303.9	1303.7
11.5°	1300.7	1301.5	1300.7	1300.3	1299.5	1299.3
12°	1296.4	1296.9	1296.4	1295.7	1294.9	1294.9
12.5°	1291.5	1292.0	1291.5	1290.8	1290.1	1290.1
13°	1286.4	1286.7	1286.4	1285.7	1285.2	1285.0
13.5°	1280.9	1281.4	1280.9	1280.4	1279.7	1279.4
14°	1275.1	1275.5	1275.1	1274.6	1274.1	1273.8
14.5°	1269.0	1269.5	1269.0	1268.5	1268.0	1267.8
15°	1262.4	1262.7	1262.4	1262.0	1261.5	1261.5
15.5°	1255.7	1255.9	1255.7	1255.2	1254.7	1254.7
16°	1248.1	1248.6	1248.1	1247.9	1247.7	1247.4
16.5°	1240.6	1240.9	1240.6	1240.4	1240.1	1240.1
17°	1232.6	1232.9	1232.6	1232.4	1232.1	1232.1
17.5°	1223.9	1224.1	1223.9	1223.9	1223.7	1223.7
18°	1214.9	1215.2	1214.9	1214.9	1214.9	1215.2
18.5°	1205.5	1205.5	1205.5	1205.5	1205.7	1205.7
19°	1195.5	1195.5	1195.5	1195.8	1196.0	1196.0
19.5°	1185.1	1185.1	1185.1	1185.4	1185.6	1185.8
20°	1174.2	1174.0	1174.2	1174.7	1174.9	1175.2
20.5°	1162.6	1162.3	1162.6	1163.1	1163.5	1163.8
21°	1150.5	1150.0	1150.5	1151.4	1151.9	1151.9



TEST NUMBER: P776165

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1112.6	1112.6	1112.6	1113.4	1113.9	1113.9
23°	1099.6	1099.6	1099.6	1100.3	1100.5	1100.5
23.5°	1086.5	1086.5	1086.5	1086.9	1087.2	1086.9
24°	1073.4	1073.6	1073.4	1073.6	1073.6	1073.4
24.5°	1060.3	1060.8	1060.3	1060.5	1060.3	1060.3
25°	1047.4	1047.9	1047.4	1047.4	1047.2	1047.0
25.5°	1034.8	1035.3	1034.8	1034.6	1034.3	1034.3
26°	1022.5	1023.0	1022.5	1022.2	1022.0	1021.7
26.5°	1010.1	1010.8	1010.1	1009.9	1009.6	1009.4
27°	998.0	998.7	998.0	998.0	997.5	997.5
27.5°	986.6	987.1	986.6	986.1	985.9	985.6
28°	975.0	975.7	975.0	974.7	974.2	974.0
28.5°	963.8	964.5	963.8	963.6	963.3	962.8
29°	952.9	953.6	952.9	952.7	952.4	952.2
29.5°	942.5	943.0	942.5	942.2	941.7	941.5
30°	932.1	932.8	932.1	931.8	931.3	931.3
30.5°	922.1	922.6	922.1	921.6	921.4	921.1
31°	912.4	913.1	912.4	912.2	911.7	911.4
31.5°	902.7	903.2	902.7	902.5	902.5	902.2
32°	893.0	893.5	893.0	893.3	893.3	893.3
32.5°	882.8	881.9	882.8	883.8	884.3	884.5
33°	869.8	867.1	869.8	872.2	874.6	875.1
33.5°	853.8	850.4	853.8	857.9	862.5	864.9
34°	835.6	831.9	835.6	840.9	847.2	850.4
34.5°	816.4	812.8	816.4	821.5	828.5	831.2
35°	795.6	792.2	795.6	799.7	806.0	808.7
35.5°	772.3	768.9	772.3	776.7	782.5	783.9
36°	747.1	743.5	747.1	751.5	756.3	757.5
36.5°	719.7	715.8	719.7	724.3	728.4	729.4
37°	691.3	687.5	691.3	694.7	697.2	697.9
37.5°	661.3	658.1	661.3	663.5	664.4	665.4
38°	629.8	628.3	629.8	630.0	629.5	631.0
38.5°	597.0	598.3	597.0	595.8	595.3	597.5
39°	564.1	567.2	564.1	561.2	560.7	561.4
39.5°	530.6	535.0	530.6	527.0	526.0	525.5
40°	497.4	501.5	497.4	492.6	490.4	488.0
40.5°	464.7	468.3	464.7	459.4	455.2	451.8
41°	432.2	435.8	432.2	426.1	419.4	414.8
41.5°	400.0	403.4	400.0	392.7	384.5	379.6
42°	368.0	371.1	368.0	359.2	349.5	345.2
42.5°	336.7	339.6	336.7	328.0	317.1	311.7
43°	305.7	308.8	305.7	296.5	285.6	279.5
43.5°	275.4	279.7	275.4	265.9	255.3	249.4



TEST NUMBER: P776165

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	192.7	198.8	192.7	181.6	170.4	165.3
45.5°	169.0	174.5	169.0	157.3	145.9	139.9
46°	146.9	153.7	146.9	135.5	122.7	117.6
46.5°	125.8	133.1	125.8	114.9	102.8	97.4
47°	105.9	112.2	105.9	95.0	84.8	81.7
47.5°	87.3	91.4	87.3	77.8	68.6	66.7
48°	70.5	74.9	70.5	62.1	55.0	53.1
48.5°	56.0	59.9	56.0	49.7	43.6	42.7
49°	44.4	46.5	44.4	38.3	33.2	32.0
49.5°	33.5	36.4	33.5	28.1	24.7	24.2
50°	26.2	27.6	26.2	21.3	16.7	17.2
50.5°	19.6	22.3	19.6	15.0	11.6	10.7
51°	13.1	17.0	13.1	10.4	7.8	5.8
51.5°	8.5	12.6	8.5	6.8	4.8	4.6
52°	5.3	8.2	5.3	4.4	4.1	3.9
52.5°	4.1	3.9	4.1	3.6	3.6	3.2
53°	3.4	3.2	3.4	3.4	3.2	3.2
53.5°	2.9	2.9	2.9	2.9	2.9	2.9
54°	2.7	2.7	2.7	2.7	2.7	2.7
54.5°	2.7	2.7	2.7	2.7	2.7	2.7
55°	2.4	2.4	2.4	2.4	2.4	2.4
55.5°	2.4	2.4	2.4	2.4	2.4	2.4
56°	2.2	2.2	2.2	2.2	2.2	2.2
56.5°	1.9	1.9	1.9	1.9	1.9	1.9
57°	1.9	1.9	1.9	1.9	1.9	1.9
57.5°	1.7	1.7	1.7	1.7	1.7	1.7
58°	1.7	1.7	1.7	1.7	1.7	1.7
58.5°	1.7	1.7	1.7	1.7	1.7	1.5
59°	1.5	1.5	1.5	1.5	1.5	1.5
59.5°	1.5	1.5	1.5	1.5	1.5	1.5
60°	1.2	1.2	1.2	1.2	1.2	1.2
60.5°	1.2	1.2	1.2	1.2	1.2	1.2
61°	1.2	1.2	1.2	1.2	1.2	1.2
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	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0
63°	1.0	1.0	1.0	1.0	1.0	1.0
63.5°	1.0	1.0	1.0	1.0	1.0	0.7
64°	0.7	0.7	0.7	0.7	0.7	0.7
64.5°	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7
65.5°	0.7	0.7	0.7	0.7	0.7	0.7
66°	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P776165
 CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.0
78°	0.2	0.2	0.2	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: P776165
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1139.6	1139.3	1138.8	1138.1	1137.9	1138.1	1138.8	1139.3	1139.6	1139.3	1138.8
22°	1126.9	1126.7	1126.2	1125.5	1125.2	1125.5	1126.2	1126.7	1126.9	1126.7	1126.2



44°	220.3	225.0	236.1	246.0	251.9	246.0	236.1	225.0	220.3	225.0	236.1
44.5°	192.5	196.8	208.0	218.9	224.7	218.9	208.0	196.8	192.5	196.8	208.0



66.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
67°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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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21.5°	1138.1	1137.9	1138.1	1138.8	1139.3	1139.6
22°	1125.5	1125.2	1125.5	1126.2	1126.7	1126.9



44°	246.0	251.9	246.0	236.1	225.0	220.3
44.5°	218.9	224.7	218.9	208.0	196.8	192.5

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66.5°	0.7	0.7	0.7	0.7	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.5	0.5

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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)