

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: P776166

Luminaire Tested: HCDJBL51525CSD-HCD82TRMB-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776166
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: HCDJBLS1525CSD-HCD82TRMB-2500lm-3000K
Description: 8 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

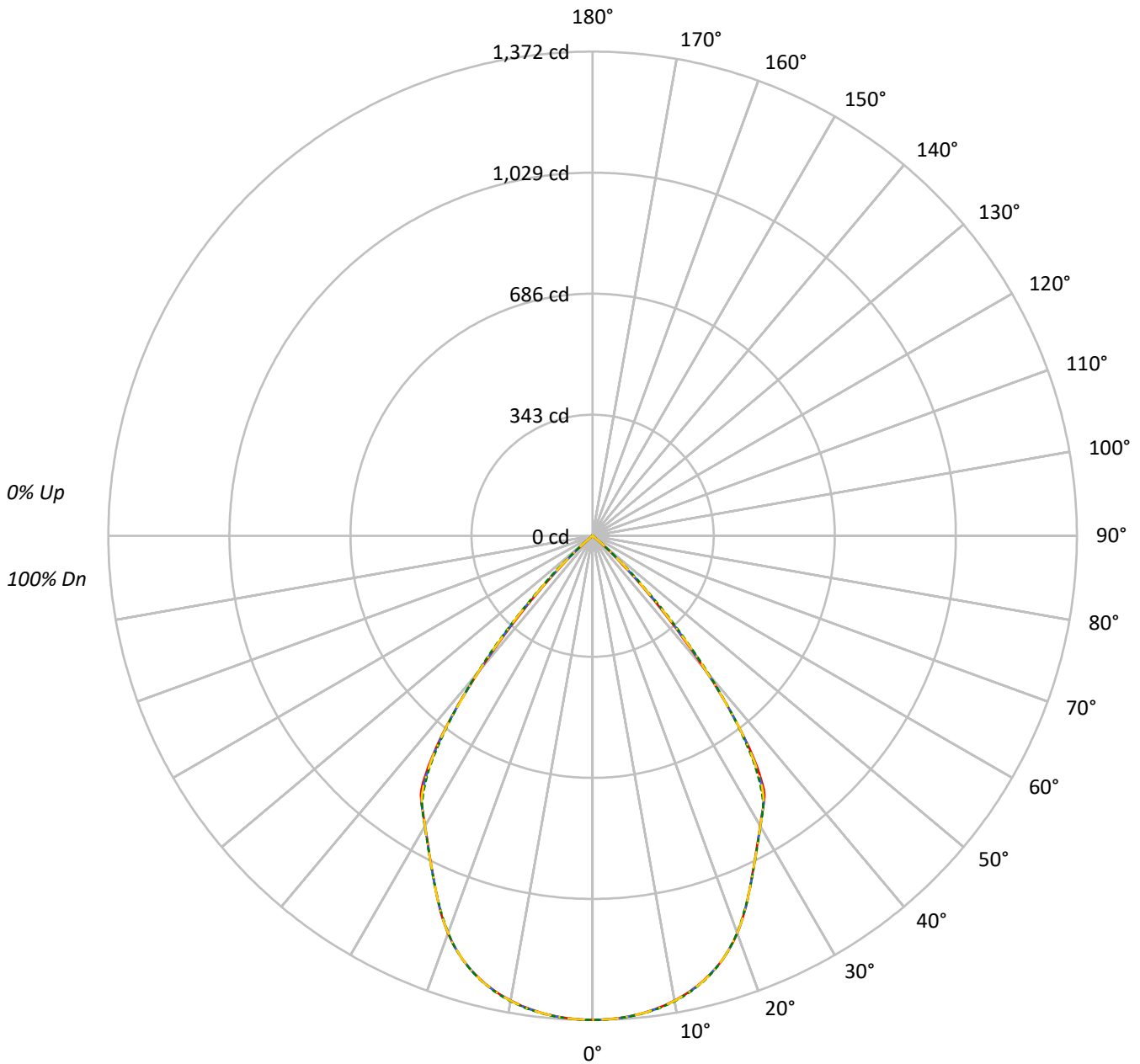
Lumens per Lamp: N/A
Luminaire Lumens: 1631.6 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.08
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	41881	41881	41881	41881
5°	41784	41824	41784	41824
10°	41455	41517	41455	41517
15°	40656	40698	40656	40698
20°	38932	38893	38932	38893
25°	35964	35997	35964	35997
30°	33480	33529	33480	33529
35°	30733	30107	30733	30107
40°	19832	20382	19832	20382
45°	7280	8752	7280	8752
50°	831	1339	831	1339
55°	133	133	133	133
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: 8752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	7.9
10°-20°	360.9	22.1
20°-30°	491.9	30.1
30°-40°	485.7	29.8
40°-50°	159.0	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°	982.1	60.2
0°-40°	1467.8	90.0
0°-60°	1630.6	99.9
0°-90°	1631.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1372	1372	1372	1372	1372	
5°	1363	1365	1363	1365	1363	129
15°	1286	1288	1286	1288	1286	361
25°	1068	1069	1068	1069	1068	492
35°	825	808	825	808	825	487
45°	169	203	169	203	169	149
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1371.8	1371.8	1371.8	1371.8	1371.8	1371.8	1371.8	1371.8	1371.8	1371.8	1371.8
0.5°	1371.6	1371.6	1371.8	1371.6	1371.8	1371.6	1371.8	1371.6	1371.6	1371.6	1371.8
1°	1371.3	1371.3	1371.6	1371.3	1371.8	1371.3	1371.6	1371.3	1371.3	1371.3	1371.6
1.5°	1370.9	1371.1	1371.1	1371.1	1371.3	1371.1	1371.1	1371.1	1370.9	1371.1	1371.1
2°	1370.4	1370.4	1370.6	1370.6	1370.9	1370.6	1370.6	1370.4	1370.4	1370.4	1370.6
2.5°	1369.6	1369.9	1369.9	1369.9	1370.1	1369.9	1369.9	1369.9	1369.6	1369.9	1369.9
3°	1368.9	1368.9	1369.1	1369.1	1369.4	1369.1	1369.1	1368.9	1368.9	1368.9	1369.1
3.5°	1367.9	1367.9	1368.1	1368.1	1368.4	1368.1	1368.1	1367.9	1367.9	1367.9	1368.1
4°	1366.7	1366.7	1366.9	1366.9	1367.4	1366.9	1366.9	1366.7	1366.7	1366.7	1366.9
4.5°	1365.2	1365.2	1365.4	1365.7	1365.9	1365.7	1365.4	1365.2	1365.2	1365.2	1365.4
5°	1363.4	1363.7	1363.9	1364.2	1364.7	1364.2	1363.9	1363.7	1363.4	1363.7	1363.9
5.5°	1362.0	1362.0	1362.2	1362.4	1362.9	1362.4	1362.2	1362.0	1362.0	1362.0	1362.2
6°	1360.0	1360.0	1360.5	1360.7	1361.2	1360.7	1360.5	1360.0	1360.0	1360.0	1360.5
6.5°	1357.8	1358.0	1358.5	1358.7	1359.2	1358.7	1358.5	1358.0	1357.8	1358.0	1358.5
7°	1355.5	1355.5	1356.3	1356.5	1357.0	1356.5	1356.3	1355.5	1355.5	1355.5	1356.3
7.5°	1353.1	1353.1	1353.8	1354.0	1354.5	1354.0	1353.8	1353.1	1353.1	1353.1	1353.8
8°	1350.3	1350.6	1351.1	1351.6	1352.1	1351.6	1351.1	1350.6	1350.3	1350.6	1351.1
8.5°	1347.4	1347.6	1348.1	1348.6	1349.1	1348.6	1348.1	1347.6	1347.4	1347.6	1348.1
9°	1344.2	1344.4	1345.1	1345.6	1346.1	1345.6	1345.1	1344.4	1344.2	1344.4	1345.1
9.5°	1340.7	1340.9	1341.7	1342.4	1342.9	1342.4	1341.7	1340.9	1340.7	1340.9	1341.7
10°	1337.2	1337.5	1338.0	1338.7	1339.2	1338.7	1338.0	1337.5	1337.2	1337.5	1338.0
10.5°	1333.3	1333.5	1334.3	1335.0	1335.5	1335.0	1334.3	1333.5	1333.3	1333.5	1334.3
11°	1329.3	1329.6	1330.3	1330.8	1331.3	1330.8	1330.3	1329.6	1329.3	1329.6	1330.3
11.5°	1324.9	1325.1	1325.9	1326.4	1327.1	1326.4	1325.9	1325.1	1324.9	1325.1	1325.9
12°	1320.4	1320.4	1321.2	1321.9	1322.4	1321.9	1321.2	1320.4	1320.4	1320.4	1321.2
12.5°	1315.5	1315.5	1316.2	1317.0	1317.5	1317.0	1316.2	1315.5	1315.5	1315.5	1316.2
13°	1310.3	1310.5	1311.0	1311.8	1312.0	1311.8	1311.0	1310.5	1310.3	1310.5	1311.0
13.5°	1304.6	1304.9	1305.6	1306.1	1306.6	1306.1	1305.6	1304.9	1304.6	1304.9	1305.6
14°	1298.9	1299.2	1299.7	1300.2	1300.7	1300.2	1299.7	1299.2	1298.9	1299.2	1299.7
14.5°	1292.7	1293.0	1293.5	1294.0	1294.5	1294.0	1293.5	1293.0	1292.7	1293.0	1293.5
15°	1286.3	1286.3	1286.8	1287.3	1287.6	1287.3	1286.8	1286.3	1286.3	1286.3	1286.8
15.5°	1279.4	1279.4	1279.9	1280.4	1280.6	1280.4	1279.9	1279.4	1279.4	1279.4	1279.9
16°	1272.0	1272.2	1272.5	1272.7	1273.2	1272.7	1272.5	1272.2	1272.0	1272.2	1272.5
16.5°	1264.6	1264.6	1264.8	1265.1	1265.3	1265.1	1264.8	1264.6	1264.6	1264.6	1264.8
17°	1256.4	1256.4	1256.7	1256.9	1257.2	1256.9	1256.7	1256.4	1256.4	1256.4	1256.7
17.5°	1247.8	1247.8	1248.0	1248.0	1248.3	1248.0	1248.0	1247.8	1247.8	1247.8	1248.0
18°	1239.1	1238.9	1238.9	1238.9	1239.1	1238.9	1238.9	1238.9	1239.1	1238.9	1238.9
18.5°	1229.5	1229.5	1229.2	1229.2	1229.2	1229.2	1229.2	1229.5	1229.5	1229.5	1229.2
19°	1219.6	1219.6	1219.3	1219.1	1219.1	1219.1	1219.3	1219.6	1219.6	1219.6	1219.3
19.5°	1209.2	1209.0	1208.7	1208.5	1208.5	1208.5	1208.7	1209.0	1209.2	1209.0	1208.7
20°	1198.3	1198.1	1197.8	1197.3	1197.1	1197.3	1197.8	1198.1	1198.3	1198.1	1197.8
20.5°	1186.7	1186.5	1186.0	1185.5	1185.2	1185.5	1186.0	1186.5	1186.7	1186.5	1186.0
21°	1174.6	1174.6	1174.1	1173.1	1172.6	1173.1	1174.1	1174.6	1174.6	1174.6	1174.1



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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°	1135.8	1135.8	1135.3	1134.5	1134.5	1134.5	1135.3	1135.8	1135.8	1135.8	1135.3
23°	1122.2	1122.2	1121.9	1121.2	1121.2	1121.2	1121.9	1122.2	1122.2	1122.2	1121.9
23.5°	1108.3	1108.6	1108.3	1107.9	1107.9	1107.9	1108.3	1108.6	1108.3	1108.6	1108.3
24°	1094.5	1094.8	1094.8	1094.5	1094.8	1094.5	1094.8	1094.8	1094.5	1094.8	1094.8
24.5°	1081.2	1081.2	1081.4	1081.2	1081.7	1081.2	1081.4	1081.2	1081.2	1081.2	1081.4
25°	1067.6	1067.8	1068.1	1068.1	1068.6	1068.1	1068.1	1067.8	1067.6	1067.8	1068.1
25.5°	1054.7	1054.7	1055.0	1055.2	1055.7	1055.2	1055.0	1054.7	1054.7	1054.7	1055.0
26°	1041.9	1042.1	1042.4	1042.6	1043.1	1042.6	1042.4	1042.1	1041.9	1042.1	1042.4
26.5°	1029.3	1029.5	1029.7	1030.0	1030.7	1030.0	1029.7	1029.5	1029.3	1029.5	1029.7
27°	1017.1	1017.1	1017.6	1017.6	1018.4	1017.6	1017.6	1017.1	1017.1	1017.1	1017.6
27.5°	1005.0	1005.3	1005.5	1006.0	1006.5	1006.0	1005.5	1005.3	1005.0	1005.3	1005.5
28°	993.2	993.4	993.9	994.2	994.9	994.2	993.9	993.4	993.2	993.4	993.9
28.5°	981.8	982.3	982.5	982.8	983.5	982.8	982.5	982.3	981.8	982.3	982.5
29°	970.9	971.2	971.4	971.7	972.4	971.7	971.4	971.2	970.9	971.2	971.4
29.5°	960.0	960.3	960.8	961.0	961.5	961.0	960.8	960.3	960.0	960.3	960.8
30°	949.7	949.7	950.2	950.4	951.1	950.4	950.2	949.7	949.7	949.7	950.2
30.5°	939.3	939.5	939.8	940.3	940.8	940.3	939.8	939.5	939.3	939.5	939.8
31°	929.4	929.6	930.1	930.4	931.1	930.4	930.1	929.6	929.4	929.6	930.1
31.5°	920.0	920.2	920.2	920.5	921.0	920.5	920.2	920.2	920.0	920.2	920.2
32°	910.9	910.9	910.9	910.6	911.1	910.6	910.9	910.9	910.9	910.9	910.9
32.5°	902.0	901.7	901.2	900.2	899.2	900.2	901.2	901.7	902.0	901.7	901.2
33°	892.3	891.8	889.3	886.9	884.2	886.9	889.3	891.8	892.3	891.8	889.3
33.5°	881.9	879.5	874.8	870.6	867.1	870.6	874.8	879.5	881.9	879.5	874.8
34°	867.1	863.9	857.5	852.0	848.3	852.0	857.5	863.9	867.1	863.9	857.5
34.5°	847.6	844.9	837.7	832.5	828.8	832.5	837.7	844.9	847.6	844.9	837.7
35°	824.6	821.9	815.4	811.2	807.8	811.2	815.4	821.9	824.6	821.9	815.4
35.5°	799.4	797.9	792.0	787.5	784.1	787.5	792.0	797.9	799.4	797.9	792.0
36°	772.4	771.2	766.3	761.8	758.1	761.8	766.3	771.2	772.4	771.2	766.3
36.5°	743.8	742.8	738.6	733.9	729.9	733.9	738.6	742.8	743.8	742.8	738.6
37°	711.6	710.9	708.4	705.0	701.0	705.0	708.4	710.9	711.6	710.9	708.4
37.5°	678.5	677.5	676.5	674.3	671.1	674.3	676.5	677.5	678.5	677.5	676.5
38°	643.4	641.9	642.4	642.2	640.7	642.2	642.4	641.9	643.4	641.9	642.4
38.5°	609.3	607.1	607.6	608.8	610.0	608.8	607.6	607.1	609.3	607.1	607.6
39°	572.5	571.7	572.2	575.2	578.4	575.2	572.2	571.7	572.5	571.7	572.2
39.5°	535.9	536.4	537.4	541.1	545.5	541.1	537.4	536.4	535.9	536.4	537.4
40°	497.6	500.0	502.3	507.2	511.4	507.2	502.3	500.0	497.6	500.0	502.3
40.5°	460.7	464.2	468.4	473.8	477.5	473.8	468.4	464.2	460.7	464.2	468.4
41°	422.9	427.6	434.5	440.7	444.4	440.7	434.5	427.6	422.9	427.6	434.5
41.5°	387.1	392.0	400.4	407.8	411.3	407.8	400.4	392.0	387.1	392.0	400.4
42°	352.0	356.4	366.3	375.2	378.4	375.2	366.3	356.4	352.0	356.4	366.3
42.5°	317.9	323.3	334.4	343.3	346.3	343.3	334.4	323.3	317.9	323.3	334.4
43°	285.0	291.2	302.3	311.7	314.9	311.7	302.3	291.2	285.0	291.2	302.3
43.5°	254.3	260.3	271.2	280.8	285.2	280.8	271.2	260.3	254.3	260.3	271.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	168.6	173.8	185.1	196.5	202.7	196.5	185.1	173.8	168.6	173.8	185.1
45.5°	142.6	148.8	160.4	172.3	178.0	172.3	160.4	148.8	142.6	148.8	160.4
46°	119.9	125.1	138.2	149.8	156.7	149.8	138.2	125.1	119.9	125.1	138.2
46.5°	99.4	104.8	117.2	128.3	135.7	128.3	117.2	104.8	99.4	104.8	117.2
47°	83.3	86.5	96.9	108.0	114.4	108.0	96.9	86.5	83.3	86.5	96.9
47.5°	68.0	70.0	79.3	89.0	93.2	89.0	79.3	70.0	68.0	70.0	79.3
48°	54.1	56.1	63.3	71.9	76.4	71.9	63.3	56.1	54.1	56.1	63.3
48.5°	43.5	44.5	50.7	57.1	61.1	57.1	50.7	44.5	43.5	44.5	50.7
49°	32.6	33.9	39.1	45.2	47.5	45.2	39.1	33.9	32.6	33.9	39.1
49.5°	24.7	25.2	28.7	34.1	37.1	34.1	28.7	25.2	24.7	25.2	28.7
50°	17.5	17.1	21.8	26.7	28.2	26.7	21.8	17.1	17.5	17.1	21.8
50.5°	10.9	11.9	15.3	20.0	22.7	20.0	15.3	11.9	10.9	11.9	15.3
51°	5.9	7.9	10.6	13.3	17.3	13.3	10.6	7.9	5.9	7.9	10.6
51.5°	4.7	4.9	6.9	8.7	12.9	8.7	6.9	4.9	4.7	4.9	6.9
52°	4.0	4.2	4.4	5.4	8.4	5.4	4.4	4.2	4.0	4.2	4.4
52.5°	3.2	3.7	3.7	4.2	4.0	4.2	3.7	3.7	3.2	3.7	3.7
53°	3.2	3.2	3.5	3.5	3.2	3.5	3.5	3.2	3.2	3.2	3.5
53.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
55.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
57°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P776166

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-3000K

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: P776166
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-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: P776166

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1371.8	1371.8	1371.8	1371.8	1371.8	1371.8
0.5°	1371.6	1371.8	1371.6	1371.8	1371.6	1371.6
1°	1371.3	1371.8	1371.3	1371.6	1371.3	1371.3
1.5°	1371.1	1371.3	1371.1	1371.1	1371.1	1370.9
2°	1370.6	1370.9	1370.6	1370.6	1370.4	1370.4
2.5°	1369.9	1370.1	1369.9	1369.9	1369.9	1369.6
3°	1369.1	1369.4	1369.1	1369.1	1368.9	1368.9
3.5°	1368.1	1368.4	1368.1	1368.1	1367.9	1367.9
4°	1366.9	1367.4	1366.9	1366.9	1366.7	1366.7
4.5°	1365.7	1365.9	1365.7	1365.4	1365.2	1365.2
5°	1364.2	1364.7	1364.2	1363.9	1363.7	1363.4
5.5°	1362.4	1362.9	1362.4	1362.2	1362.0	1362.0
6°	1360.7	1361.2	1360.7	1360.5	1360.0	1360.0
6.5°	1358.7	1359.2	1358.7	1358.5	1358.0	1357.8
7°	1356.5	1357.0	1356.5	1356.3	1355.5	1355.5
7.5°	1354.0	1354.5	1354.0	1353.8	1353.1	1353.1
8°	1351.6	1352.1	1351.6	1351.1	1350.6	1350.3
8.5°	1348.6	1349.1	1348.6	1348.1	1347.6	1347.4
9°	1345.6	1346.1	1345.6	1345.1	1344.4	1344.2
9.5°	1342.4	1342.9	1342.4	1341.7	1340.9	1340.7
10°	1338.7	1339.2	1338.7	1338.0	1337.5	1337.2
10.5°	1335.0	1335.5	1335.0	1334.3	1333.5	1333.3
11°	1330.8	1331.3	1330.8	1330.3	1329.6	1329.3
11.5°	1326.4	1327.1	1326.4	1325.9	1325.1	1324.9
12°	1321.9	1322.4	1321.9	1321.2	1320.4	1320.4
12.5°	1317.0	1317.5	1317.0	1316.2	1315.5	1315.5
13°	1311.8	1312.0	1311.8	1311.0	1310.5	1310.3
13.5°	1306.1	1306.6	1306.1	1305.6	1304.9	1304.6
14°	1300.2	1300.7	1300.2	1299.7	1299.2	1298.9
14.5°	1294.0	1294.5	1294.0	1293.5	1293.0	1292.7
15°	1287.3	1287.6	1287.3	1286.8	1286.3	1286.3
15.5°	1280.4	1280.6	1280.4	1279.9	1279.4	1279.4
16°	1272.7	1273.2	1272.7	1272.5	1272.2	1272.0
16.5°	1265.1	1265.3	1265.1	1264.8	1264.6	1264.6
17°	1256.9	1257.2	1256.9	1256.7	1256.4	1256.4
17.5°	1248.0	1248.3	1248.0	1248.0	1247.8	1247.8
18°	1238.9	1239.1	1238.9	1238.9	1238.9	1239.1
18.5°	1229.2	1229.2	1229.2	1229.2	1229.5	1229.5
19°	1219.1	1219.1	1219.1	1219.3	1219.6	1219.6
19.5°	1208.5	1208.5	1208.5	1208.7	1209.0	1209.2
20°	1197.3	1197.1	1197.3	1197.8	1198.1	1198.3
20.5°	1185.5	1185.2	1185.5	1186.0	1186.5	1186.7
21°	1173.1	1172.6	1173.1	1174.1	1174.6	1174.6



TEST NUMBER: P776166

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1134.5	1134.5	1134.5	1135.3	1135.8	1135.8
23°	1121.2	1121.2	1121.2	1121.9	1122.2	1122.2
23.5°	1107.9	1107.9	1107.9	1108.3	1108.6	1108.3
24°	1094.5	1094.8	1094.5	1094.8	1094.8	1094.5
24.5°	1081.2	1081.7	1081.2	1081.4	1081.2	1081.2
25°	1068.1	1068.6	1068.1	1068.1	1067.8	1067.6
25.5°	1055.2	1055.7	1055.2	1055.0	1054.7	1054.7
26°	1042.6	1043.1	1042.6	1042.4	1042.1	1041.9
26.5°	1030.0	1030.7	1030.0	1029.7	1029.5	1029.3
27°	1017.6	1018.4	1017.6	1017.6	1017.1	1017.1
27.5°	1006.0	1006.5	1006.0	1005.5	1005.3	1005.0
28°	994.2	994.9	994.2	993.9	993.4	993.2
28.5°	982.8	983.5	982.8	982.5	982.3	981.8
29°	971.7	972.4	971.7	971.4	971.2	970.9
29.5°	961.0	961.5	961.0	960.8	960.3	960.0
30°	950.4	951.1	950.4	950.2	949.7	949.7
30.5°	940.3	940.8	940.3	939.8	939.5	939.3
31°	930.4	931.1	930.4	930.1	929.6	929.4
31.5°	920.5	921.0	920.5	920.2	920.2	920.0
32°	910.6	911.1	910.6	910.9	910.9	910.9
32.5°	900.2	899.2	900.2	901.2	901.7	902.0
33°	886.9	884.2	886.9	889.3	891.8	892.3
33.5°	870.6	867.1	870.6	874.8	879.5	881.9
34°	852.0	848.3	852.0	857.5	863.9	867.1
34.5°	832.5	828.8	832.5	837.7	844.9	847.6
35°	811.2	807.8	811.2	815.4	821.9	824.6
35.5°	787.5	784.1	787.5	792.0	797.9	799.4
36°	761.8	758.1	761.8	766.3	771.2	772.4
36.5°	733.9	729.9	733.9	738.6	742.8	743.8
37°	705.0	701.0	705.0	708.4	710.9	711.6
37.5°	674.3	671.1	674.3	676.5	677.5	678.5
38°	642.2	640.7	642.2	642.4	641.9	643.4
38.5°	608.8	610.0	608.8	607.6	607.1	609.3
39°	575.2	578.4	575.2	572.2	571.7	572.5
39.5°	541.1	545.5	541.1	537.4	536.4	535.9
40°	507.2	511.4	507.2	502.3	500.0	497.6
40.5°	473.8	477.5	473.8	468.4	464.2	460.7
41°	440.7	444.4	440.7	434.5	427.6	422.9
41.5°	407.8	411.3	407.8	400.4	392.0	387.1
42°	375.2	378.4	375.2	366.3	356.4	352.0
42.5°	343.3	346.3	343.3	334.4	323.3	317.9
43°	311.7	314.9	311.7	302.3	291.2	285.0
43.5°	280.8	285.2	280.8	271.2	260.3	254.3



TEST NUMBER: P776166

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	196.5	202.7	196.5	185.1	173.8	168.6
45.5°	172.3	178.0	172.3	160.4	148.8	142.6
46°	149.8	156.7	149.8	138.2	125.1	119.9
46.5°	128.3	135.7	128.3	117.2	104.8	99.4
47°	108.0	114.4	108.0	96.9	86.5	83.3
47.5°	89.0	93.2	89.0	79.3	70.0	68.0
48°	71.9	76.4	71.9	63.3	56.1	54.1
48.5°	57.1	61.1	57.1	50.7	44.5	43.5
49°	45.2	47.5	45.2	39.1	33.9	32.6
49.5°	34.1	37.1	34.1	28.7	25.2	24.7
50°	26.7	28.2	26.7	21.8	17.1	17.5
50.5°	20.0	22.7	20.0	15.3	11.9	10.9
51°	13.3	17.3	13.3	10.6	7.9	5.9
51.5°	8.7	12.9	8.7	6.9	4.9	4.7
52°	5.4	8.4	5.4	4.4	4.2	4.0
52.5°	4.2	4.0	4.2	3.7	3.7	3.2
53°	3.5	3.2	3.5	3.5	3.2	3.2
53.5°	3.0	3.0	3.0	3.0	3.0	3.0
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°	2.5	2.5	2.5	2.5	2.5	2.5
55.5°	2.5	2.5	2.5	2.5	2.5	2.5
56°	2.2	2.2	2.2	2.2	2.2	2.2
56.5°	2.0	2.0	2.0	2.0	2.0	2.0
57°	2.0	2.0	2.0	2.0	2.0	2.0
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: P776166
 CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-3000K

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: P776166

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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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°	1162.0	1161.7	1161.2	1160.5	1160.3	1160.5	1161.2	1161.7	1162.0	1161.7	1161.2
22°	1149.1	1148.9	1148.4	1147.7	1147.4	1147.7	1148.4	1148.9	1149.1	1148.9	1148.4



44°	224.7	229.4	240.8	250.9	256.8	250.9	240.8	229.4	224.7	229.4	240.8
44.5°	196.3	200.7	212.1	223.2	229.1	223.2	212.1	200.7	196.3	200.7	212.1



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°	1160.5	1160.3	1160.5	1161.2	1161.7	1162.0
22°	1147.7	1147.4	1147.7	1148.4	1148.9	1149.1



44°	250.9	256.8	250.9	240.8	229.4	224.7
44.5°	223.2	229.1	223.2	212.1	200.7	196.3

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Scaled Data Report



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)