

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: P776054

Luminaire Tested: HCDJBS1525CSD-HCD62TRC-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B055-HCD62TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD62TRC-2500lm-5000K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

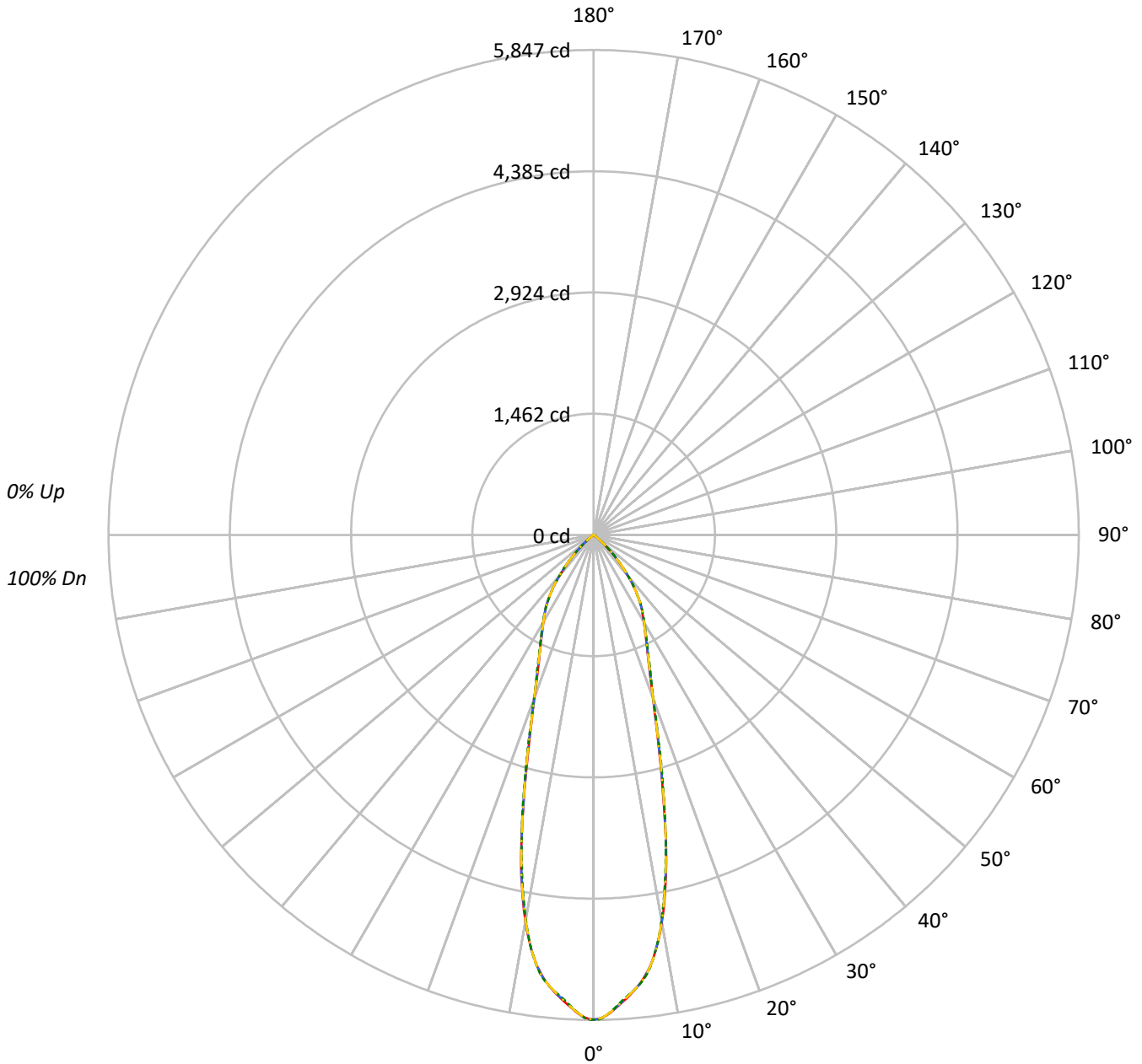
Lumens per Lamp: N/A
Luminaire Lumens: 2991.4 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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								
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57								
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	320358	320358	320358	320358
5°	303857	303516	303857	303516
10°	263539	262030	263539	262030
15°	183310	185461	183310	185461
20°	121653	122948	121653	122948
25°	92467	93780	92467	93780
30°	76455	77392	76455	77392
35°	63992	64039	63992	64039
40°	45571	46294	45571	46294
45°	25553	26817	25553	26817
50°	8699	10345	8699	10345
55°	621	1329	621	1329
60°	110	110	110	110
65°	65	65	65	65
70°	48	48	48	48
75°	64	64	64	64
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 26817 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.9	16.8
10°-20°	896.9	30.0
20°-30°	716.2	23.9
30°-40°	586.3	19.6
40°-50°	264.8	8.9
50°-60°	22.7	0.8
60°-70°	0.5	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°	2117.0	70.8
0°-40°	2703.3	90.4
0°-60°	2990.7	100.0
0°-90°	2991.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5844	5844	5844	5844	5844	
5°	5522	5516	5522	5516	5522	504
15°	3230	3268	3230	3268	3230	895
25°	1529	1550	1529	1550	1529	712
35°	956	957	956	957	956	585
45°	330	346	330	346	330	260
55°	6	14	6	14	6	20
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	



TEST NUMBER: P776054

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRC-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	5843.8	5843.8	5843.8	5843.8	5843.8	5843.8	5843.8	5843.8	5843.8	5843.8	5843.8
0.5°	5836.9	5836.9	5836.9	5837.9	5846.9	5837.9	5836.9	5836.9	5836.9	5836.9	5836.9
1°	5821.4	5821.4	5820.6	5820.9	5827.0	5820.9	5820.6	5821.4	5821.4	5821.4	5820.6
1.5°	5796.1	5795.8	5793.7	5792.5	5796.3	5792.5	5793.7	5795.8	5796.1	5795.8	5793.7
2°	5764.1	5762.5	5759.7	5756.6	5757.1	5756.6	5759.7	5762.5	5764.1	5762.5	5759.7
2.5°	5725.9	5724.8	5720.7	5715.5	5714.0	5715.5	5720.7	5724.8	5725.9	5724.8	5720.7
3°	5685.6	5684.3	5679.6	5672.7	5669.8	5672.7	5679.6	5684.3	5685.6	5684.3	5679.6
3.5°	5645.3	5643.5	5638.1	5631.1	5627.5	5631.1	5638.1	5643.5	5645.3	5643.5	5638.1
4°	5605.3	5602.5	5597.3	5591.9	5588.3	5591.9	5597.3	5602.5	5605.3	5602.5	5597.3
4.5°	5564.0	5561.4	5557.5	5553.9	5551.1	5553.9	5557.5	5561.4	5564.0	5561.4	5557.5
5°	5521.7	5519.9	5517.5	5516.0	5515.5	5516.0	5517.5	5519.9	5521.7	5519.9	5517.5
5.5°	5476.0	5474.9	5474.9	5476.0	5478.0	5476.0	5474.9	5474.9	5476.0	5474.9	5474.9
6°	5426.4	5426.4	5428.0	5432.1	5434.4	5432.1	5428.0	5426.4	5426.4	5426.4	5428.0
6.5°	5371.2	5372.5	5375.6	5379.9	5383.0	5379.9	5375.6	5372.5	5371.2	5372.5	5375.6
7°	5308.4	5311.0	5313.9	5318.5	5322.1	5318.5	5313.9	5311.0	5308.4	5311.0	5313.9
7.5°	5237.5	5238.5	5242.1	5245.5	5247.5	5245.5	5242.1	5238.5	5237.5	5238.5	5242.1
8°	5156.4	5156.9	5159.0	5161.0	5162.1	5161.0	5159.0	5156.9	5156.4	5156.9	5159.0
8.5°	5063.7	5063.7	5064.0	5063.5	5061.7	5063.5	5064.0	5063.7	5063.7	5063.7	5064.0
9°	4962.3	4962.0	4959.7	4956.1	4954.5	4956.1	4959.7	4962.0	4962.3	4962.0	4959.7
9.5°	4851.8	4851.0	4845.1	4839.9	4835.8	4839.9	4845.1	4851.0	4851.8	4851.0	4845.1
10°	4734.3	4731.8	4723.2	4713.7	4707.2	4713.7	4723.2	4731.8	4734.3	4731.8	4723.2
10.5°	4609.4	4604.0	4594.4	4582.8	4573.5	4582.8	4594.4	4604.0	4609.4	4604.0	4594.4
11°	4475.9	4471.3	4458.9	4449.3	4440.8	4449.3	4458.9	4471.3	4475.9	4471.3	4458.9
11.5°	4337.6	4333.4	4322.9	4308.9	4302.2	4308.9	4322.9	4333.4	4337.6	4333.4	4322.9
12°	4194.3	4190.9	4178.0	4165.1	4156.4	4165.1	4178.0	4190.9	4194.3	4190.9	4178.0
12.5°	4043.8	4038.1	4027.8	4015.4	4007.7	4015.4	4027.8	4038.1	4043.8	4038.1	4027.8
13°	3886.3	3883.5	3873.9	3866.7	3862.1	3866.7	3873.9	3883.5	3886.3	3883.5	3873.9
13.5°	3717.5	3719.6	3717.3	3714.7	3712.3	3714.7	3717.3	3719.6	3717.5	3719.6	3717.3
14°	3550.7	3554.4	3557.2	3560.8	3563.7	3560.8	3557.2	3554.4	3550.7	3554.4	3557.2
14.5°	3385.5	3391.2	3400.8	3410.1	3416.8	3410.1	3400.8	3391.2	3385.5	3391.2	3400.8
15°	3229.9	3234.5	3247.4	3259.6	3267.8	3259.6	3247.4	3234.5	3229.9	3234.5	3247.4
15.5°	3082.7	3088.9	3100.3	3113.7	3123.8	3113.7	3100.3	3088.9	3082.7	3088.9	3100.3
16°	2946.2	2950.1	2960.1	2976.1	2987.7	2976.1	2960.1	2950.1	2946.2	2950.1	2960.1
16.5°	2815.3	2818.4	2830.5	2845.0	2856.1	2845.0	2830.5	2818.4	2815.3	2818.4	2830.5
17°	2690.1	2693.5	2704.3	2718.8	2730.4	2718.8	2704.3	2693.5	2690.1	2693.5	2704.3
17.5°	2571.4	2574.7	2585.3	2597.2	2607.5	2597.2	2585.3	2574.7	2571.4	2574.7	2585.3
18°	2460.6	2463.5	2470.7	2482.0	2492.4	2482.0	2470.7	2463.5	2460.6	2463.5	2470.7
18.5°	2356.8	2357.6	2364.8	2378.8	2381.9	2378.8	2364.8	2357.6	2356.8	2357.6	2364.8
19°	2257.2	2259.3	2269.8	2283.0	2283.5	2283.0	2269.8	2259.3	2257.2	2259.3	2269.8
19.5°	2165.0	2170.7	2180.3	2191.6	2192.7	2191.6	2180.3	2170.7	2165.0	2170.7	2180.3
20°	2085.3	2086.6	2094.6	2106.2	2107.5	2106.2	2094.6	2086.6	2085.3	2086.6	2094.6
20.5°	2008.9	2010.9	2015.1	2025.4	2028.0	2025.4	2015.1	2010.9	2008.9	2010.9	2015.1
21°	1935.0	1938.4	1947.7	1953.9	1957.5	1953.9	1947.7	1938.4	1935.0	1938.4	1947.7



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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°	1752.8	1754.9	1766.2	1776.5	1786.3	1776.5	1766.2	1754.9	1752.8	1754.9	1766.2
23°	1702.4	1704.5	1711.7	1724.1	1735.2	1724.1	1711.7	1704.5	1702.4	1704.5	1711.7
23.5°	1655.0	1656.5	1663.5	1672.8	1685.2	1672.8	1663.5	1656.5	1655.0	1656.5	1663.5
24°	1610.0	1611.6	1617.8	1627.6	1635.8	1627.6	1617.8	1611.6	1610.0	1611.6	1617.8
24.5°	1568.5	1569.2	1574.2	1584.7	1591.4	1584.7	1574.2	1569.2	1568.5	1569.2	1574.2
25°	1528.7	1529.5	1533.4	1544.2	1550.4	1544.2	1533.4	1529.5	1528.7	1529.5	1533.4
25.5°	1490.5	1491.0	1495.2	1505.5	1511.2	1505.5	1495.2	1491.0	1490.5	1491.0	1495.2
26°	1453.9	1454.4	1458.2	1468.6	1474.3	1468.6	1458.2	1454.4	1453.9	1454.4	1458.2
26.5°	1418.0	1418.8	1422.4	1432.2	1437.9	1432.2	1422.4	1418.8	1418.0	1418.8	1422.4
27°	1384.4	1385.2	1388.3	1397.8	1404.3	1397.8	1388.3	1385.2	1384.4	1385.2	1388.3
27.5°	1352.7	1353.2	1356.0	1364.8	1371.0	1364.8	1356.0	1353.2	1352.7	1353.2	1356.0
28°	1321.9	1322.2	1325.3	1333.3	1339.0	1333.3	1325.3	1322.2	1321.9	1322.2	1325.3
28.5°	1292.3	1292.3	1295.4	1302.6	1308.5	1302.6	1295.4	1292.3	1292.3	1292.3	1295.4
29°	1263.6	1263.3	1265.9	1273.2	1278.6	1273.2	1265.9	1263.3	1263.6	1263.3	1265.9
29.5°	1235.0	1235.0	1238.1	1244.2	1249.7	1244.2	1238.1	1235.0	1235.0	1235.0	1238.1
30°	1207.8	1207.8	1210.9	1216.9	1222.6	1216.9	1210.9	1207.8	1207.8	1207.8	1210.9
30.5°	1181.8	1181.8	1184.6	1190.3	1195.7	1190.3	1184.6	1181.8	1181.8	1181.8	1184.6
31°	1157.0	1156.7	1160.1	1165.3	1170.7	1165.3	1160.1	1156.7	1157.0	1156.7	1160.1
31.5°	1133.2	1132.7	1135.6	1140.2	1145.6	1140.2	1135.6	1132.7	1133.2	1132.7	1135.6
32°	1110.5	1110.0	1112.6	1116.5	1120.3	1116.5	1112.6	1110.0	1110.5	1110.0	1112.6
32.5°	1087.8	1087.6	1088.6	1091.7	1094.3	1091.7	1088.6	1087.6	1087.8	1087.6	1088.6
33°	1064.3	1063.5	1063.5	1065.9	1068.2	1065.9	1063.5	1063.5	1064.3	1063.5	1063.5
33.5°	1039.3	1038.0	1038.2	1039.3	1042.6	1039.3	1038.2	1038.0	1039.3	1038.0	1038.2
34°	1012.7	1011.4	1011.4	1010.6	1014.2	1010.6	1011.4	1011.4	1012.7	1011.4	1011.4
34.5°	985.1	983.5	984.0	983.0	986.1	983.0	984.0	983.5	985.1	983.5	984.0
35°	956.2	955.6	955.4	955.4	956.9	955.4	955.4	955.6	956.2	955.6	955.4
35.5°	926.7	926.0	925.7	927.2	927.2	927.2	925.7	926.0	926.7	926.0	925.7
36°	896.5	896.3	896.3	898.1	896.8	898.1	896.3	896.3	896.5	896.3	896.3
36.5°	865.0	866.1	866.1	868.6	866.6	868.6	866.1	866.1	865.0	866.1	866.1
37°	833.3	834.8	835.9	838.2	835.6	838.2	835.9	834.8	833.3	834.8	835.9
37.5°	802.0	803.1	806.4	807.0	804.9	807.0	806.4	803.1	802.0	803.1	806.4
38°	770.6	770.8	774.9	774.4	774.2	774.4	774.9	770.8	770.6	770.8	774.9
38.5°	738.5	738.0	742.9	741.6	742.7	741.6	742.9	738.0	738.5	738.0	742.9
39°	705.0	705.5	710.9	708.6	711.4	708.6	710.9	705.5	705.0	705.5	710.9
39.5°	670.9	672.5	678.7	676.1	679.2	676.1	678.7	672.5	670.9	672.5	678.7
40°	636.8	639.7	646.1	643.8	646.9	643.8	646.1	639.7	636.8	639.7	646.1
40.5°	604.3	607.2	613.1	612.6	614.6	612.6	613.1	607.2	604.3	607.2	613.1
41°	572.3	574.9	580.0	581.1	582.4	581.1	580.0	574.9	572.3	574.9	580.0
41.5°	540.8	543.1	547.0	550.4	550.9	550.4	547.0	543.1	540.8	543.1	547.0
42°	509.6	511.4	514.5	519.4	519.9	519.4	514.5	511.4	509.6	511.4	514.5
42.5°	479.1	480.4	482.5	488.9	490.2	488.9	482.5	480.4	479.1	480.4	482.5
43°	448.4	449.4	451.0	458.2	460.5	458.2	451.0	449.4	448.4	449.4	451.0
43.5°	418.2	418.4	420.5	427.7	431.1	427.7	420.5	418.4	418.2	418.4	420.5



TEST NUMBER: P776054

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	329.6	330.4	334.0	341.8	345.9	341.8	334.0	330.4	329.6	330.4	334.0
45.5°	302.3	303.3	306.9	314.9	318.5	314.9	306.9	303.3	302.3	303.3	306.9
46°	276.5	276.7	280.6	288.1	292.2	288.1	280.6	276.7	276.5	276.7	280.6
46.5°	250.9	251.4	254.8	261.8	266.9	261.8	254.8	251.4	250.9	251.4	254.8
47°	226.1	226.6	230.5	237.2	242.4	237.2	230.5	226.6	226.1	226.6	230.5
47.5°	201.6	203.2	207.8	213.5	219.7	213.5	207.8	203.2	201.6	203.2	207.8
48°	179.4	180.4	185.9	191.5	197.0	191.5	185.9	180.4	179.4	180.4	185.9
48.5°	158.0	159.0	165.0	170.9	176.6	170.9	165.0	159.0	158.0	159.0	165.0
49°	138.1	139.1	145.3	151.3	158.0	151.3	145.3	139.1	138.1	139.1	145.3
49.5°	119.3	121.3	127.0	132.9	139.7	132.9	127.0	121.3	119.3	121.3	127.0
50°	102.0	104.3	110.2	115.6	121.3	115.6	110.2	104.3	102.0	104.3	110.2
50.5°	86.0	89.6	94.7	99.4	103.0	99.4	94.7	89.6	86.0	89.6	94.7
51°	72.0	75.6	80.3	84.2	86.2	84.2	80.3	75.6	72.0	75.6	80.3
51.5°	60.7	63.2	66.6	70.7	72.3	70.7	66.6	63.2	60.7	63.2	66.6
52°	50.3	52.7	55.2	58.9	59.6	58.9	55.2	52.7	50.3	52.7	55.2
52.5°	41.3	42.3	45.4	48.5	48.0	48.5	45.4	42.3	41.3	42.3	45.4
53°	32.3	34.1	36.1	38.7	38.2	38.7	36.1	34.1	32.3	34.1	36.1
53.5°	23.2	25.8	27.9	29.7	29.4	29.7	27.9	25.8	23.2	25.8	27.9
54°	16.8	17.8	20.1	22.5	24.3	22.5	20.1	17.8	16.8	17.8	20.1
54.5°	10.6	11.9	14.5	16.0	19.1	16.0	14.5	11.9	10.6	11.9	14.5
55°	6.5	7.5	9.8	11.1	13.9	11.1	9.8	7.5	6.5	7.5	9.8
55.5°	4.6	4.6	5.7	7.0	9.0	7.0	5.7	4.6	4.6	4.6	5.7
56°	3.4	3.1	3.6	4.4	4.6	4.4	3.6	3.1	3.4	3.1	3.6
56.5°	2.3	2.1	2.6	3.4	2.6	3.4	2.6	2.1	2.3	2.1	2.6
57°	1.3	1.8	1.8	2.3	1.5	2.3	1.8	1.8	1.3	1.8	1.8
57.5°	1.3	1.3	1.3	1.8	1.3	1.8	1.3	1.3	1.3	1.3	1.3
58°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
58.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
59°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
59.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
61°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
61.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	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: P776054

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

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	0.3	0.5	0.5	0.5	0.5	0.5	0.5
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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
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: P776054
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

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: P776054

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5843.8	5843.8	5843.8	5843.8	5843.8	5843.8
0.5°	5837.9	5846.9	5837.9	5836.9	5836.9	5836.9
1°	5820.9	5827.0	5820.9	5820.6	5821.4	5821.4
1.5°	5792.5	5796.3	5792.5	5793.7	5795.8	5796.1
2°	5756.6	5757.1	5756.6	5759.7	5762.5	5764.1
2.5°	5715.5	5714.0	5715.5	5720.7	5724.8	5725.9
3°	5672.7	5669.8	5672.7	5679.6	5684.3	5685.6
3.5°	5631.1	5627.5	5631.1	5638.1	5643.5	5645.3
4°	5591.9	5588.3	5591.9	5597.3	5602.5	5605.3
4.5°	5553.9	5551.1	5553.9	5557.5	5561.4	5564.0
5°	5516.0	5515.5	5516.0	5517.5	5519.9	5521.7
5.5°	5476.0	5478.0	5476.0	5474.9	5474.9	5476.0
6°	5432.1	5434.4	5432.1	5428.0	5426.4	5426.4
6.5°	5379.9	5383.0	5379.9	5375.6	5372.5	5371.2
7°	5318.5	5322.1	5318.5	5313.9	5311.0	5308.4
7.5°	5245.5	5247.5	5245.5	5242.1	5238.5	5237.5
8°	5161.0	5162.1	5161.0	5159.0	5156.9	5156.4
8.5°	5063.5	5061.7	5063.5	5064.0	5063.7	5063.7
9°	4956.1	4954.5	4956.1	4959.7	4962.0	4962.3
9.5°	4839.9	4835.8	4839.9	4845.1	4851.0	4851.8
10°	4713.7	4707.2	4713.7	4723.2	4731.8	4734.3
10.5°	4582.8	4573.5	4582.8	4594.4	4604.0	4609.4
11°	4449.3	4440.8	4449.3	4458.9	4471.3	4475.9
11.5°	4308.9	4302.2	4308.9	4322.9	4333.4	4337.6
12°	4165.1	4156.4	4165.1	4178.0	4190.9	4194.3
12.5°	4015.4	4007.7	4015.4	4027.8	4038.1	4043.8
13°	3866.7	3862.1	3866.7	3873.9	3883.5	3886.3
13.5°	3714.7	3712.3	3714.7	3717.3	3719.6	3717.5
14°	3560.8	3563.7	3560.8	3557.2	3554.4	3550.7
14.5°	3410.1	3416.8	3410.1	3400.8	3391.2	3385.5
15°	3259.6	3267.8	3259.6	3247.4	3234.5	3229.9
15.5°	3113.7	3123.8	3113.7	3100.3	3088.9	3082.7
16°	2976.1	2987.7	2976.1	2960.1	2950.1	2946.2
16.5°	2845.0	2856.1	2845.0	2830.5	2818.4	2815.3
17°	2718.8	2730.4	2718.8	2704.3	2693.5	2690.1
17.5°	2597.2	2607.5	2597.2	2585.3	2574.7	2571.4
18°	2482.0	2492.4	2482.0	2470.7	2463.5	2460.6
18.5°	2378.8	2381.9	2378.8	2364.8	2357.6	2356.8
19°	2283.0	2283.5	2283.0	2269.8	2259.3	2257.2
19.5°	2191.6	2192.7	2191.6	2180.3	2170.7	2165.0
20°	2106.2	2107.5	2106.2	2094.6	2086.6	2085.3
20.5°	2025.4	2028.0	2025.4	2015.1	2010.9	2008.9
21°	1953.9	1957.5	1953.9	1947.7	1938.4	1935.0



TEST NUMBER: P776054

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1776.5	1786.3	1776.5	1766.2	1754.9	1752.8
23°	1724.1	1735.2	1724.1	1711.7	1704.5	1702.4
23.5°	1672.8	1685.2	1672.8	1663.5	1656.5	1655.0
24°	1627.6	1635.8	1627.6	1617.8	1611.6	1610.0
24.5°	1584.7	1591.4	1584.7	1574.2	1569.2	1568.5
25°	1544.2	1550.4	1544.2	1533.4	1529.5	1528.7
25.5°	1505.5	1511.2	1505.5	1495.2	1491.0	1490.5
26°	1468.6	1474.3	1468.6	1458.2	1454.4	1453.9
26.5°	1432.2	1437.9	1432.2	1422.4	1418.8	1418.0
27°	1397.8	1404.3	1397.8	1388.3	1385.2	1384.4
27.5°	1364.8	1371.0	1364.8	1356.0	1353.2	1352.7
28°	1333.3	1339.0	1333.3	1325.3	1322.2	1321.9
28.5°	1302.6	1308.5	1302.6	1295.4	1292.3	1292.3
29°	1273.2	1278.6	1273.2	1265.9	1263.3	1263.6
29.5°	1244.2	1249.7	1244.2	1238.1	1235.0	1235.0
30°	1216.9	1222.6	1216.9	1210.9	1207.8	1207.8
30.5°	1190.3	1195.7	1190.3	1184.6	1181.8	1181.8
31°	1165.3	1170.7	1165.3	1160.1	1156.7	1157.0
31.5°	1140.2	1145.6	1140.2	1135.6	1132.7	1133.2
32°	1116.5	1120.3	1116.5	1112.6	1110.0	1110.5
32.5°	1091.7	1094.3	1091.7	1088.6	1087.6	1087.8
33°	1065.9	1068.2	1065.9	1063.5	1063.5	1064.3
33.5°	1039.3	1042.6	1039.3	1038.2	1038.0	1039.3
34°	1010.6	1014.2	1010.6	1011.4	1011.4	1012.7
34.5°	983.0	986.1	983.0	984.0	983.5	985.1
35°	955.4	956.9	955.4	955.4	955.6	956.2
35.5°	927.2	927.2	927.2	925.7	926.0	926.7
36°	898.1	896.8	898.1	896.3	896.3	896.5
36.5°	868.6	866.6	868.6	866.1	866.1	865.0
37°	838.2	835.6	838.2	835.9	834.8	833.3
37.5°	807.0	804.9	807.0	806.4	803.1	802.0
38°	774.4	774.2	774.4	774.9	770.8	770.6
38.5°	741.6	742.7	741.6	742.9	738.0	738.5
39°	708.6	711.4	708.6	710.9	705.5	705.0
39.5°	676.1	679.2	676.1	678.7	672.5	670.9
40°	643.8	646.9	643.8	646.1	639.7	636.8
40.5°	612.6	614.6	612.6	613.1	607.2	604.3
41°	581.1	582.4	581.1	580.0	574.9	572.3
41.5°	550.4	550.9	550.4	547.0	543.1	540.8
42°	519.4	519.9	519.4	514.5	511.4	509.6
42.5°	488.9	490.2	488.9	482.5	480.4	479.1
43°	458.2	460.5	458.2	451.0	449.4	448.4
43.5°	427.7	431.1	427.7	420.5	418.4	418.2



TEST NUMBER: P776054

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	341.8	345.9	341.8	334.0	330.4	329.6
45.5°	314.9	318.5	314.9	306.9	303.3	302.3
46°	288.1	292.2	288.1	280.6	276.7	276.5
46.5°	261.8	266.9	261.8	254.8	251.4	250.9
47°	237.2	242.4	237.2	230.5	226.6	226.1
47.5°	213.5	219.7	213.5	207.8	203.2	201.6
48°	191.5	197.0	191.5	185.9	180.4	179.4
48.5°	170.9	176.6	170.9	165.0	159.0	158.0
49°	151.3	158.0	151.3	145.3	139.1	138.1
49.5°	132.9	139.7	132.9	127.0	121.3	119.3
50°	115.6	121.3	115.6	110.2	104.3	102.0
50.5°	99.4	103.0	99.4	94.7	89.6	86.0
51°	84.2	86.2	84.2	80.3	75.6	72.0
51.5°	70.7	72.3	70.7	66.6	63.2	60.7
52°	58.9	59.6	58.9	55.2	52.7	50.3
52.5°	48.5	48.0	48.5	45.4	42.3	41.3
53°	38.7	38.2	38.7	36.1	34.1	32.3
53.5°	29.7	29.4	29.7	27.9	25.8	23.2
54°	22.5	24.3	22.5	20.1	17.8	16.8
54.5°	16.0	19.1	16.0	14.5	11.9	10.6
55°	11.1	13.9	11.1	9.8	7.5	6.5
55.5°	7.0	9.0	7.0	5.7	4.6	4.6
56°	4.4	4.6	4.4	3.6	3.1	3.4
56.5°	3.4	2.6	3.4	2.6	2.1	2.3
57°	2.3	1.5	2.3	1.8	1.8	1.3
57.5°	1.8	1.3	1.8	1.3	1.3	1.3
58°	1.3	1.3	1.3	1.3	1.3	1.3
58.5°	1.0	1.0	1.0	1.0	1.0	1.0
59°	1.0	1.0	1.0	1.0	1.0	1.0
59.5°	1.0	1.0	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0
60.5°	0.8	0.8	0.8	0.8	0.8	0.8
61°	0.8	0.8	0.8	0.8	0.8	0.8
61.5°	0.8	0.8	0.8	0.8	0.8	0.8
62°	0.8	0.8	0.8	0.8	0.8	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°	0.5	0.5	0.5	0.5	0.5	0.5
64°	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
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: P776054

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.3	0.5	0.5	0.5	0.5
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	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	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: P776054

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRC-2500lm-5000K

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





21.5°	1865.3	1872.8	1883.9	1890.6	1892.7	1890.6	1883.9	1872.8	1865.3	1872.8	1883.9
22°	1808.0	1812.2	1823.3	1832.3	1838.5	1832.3	1823.3	1812.2	1808.0	1812.2	1823.3



44°	387.5	388.2	390.6	397.8	402.2	397.8	390.6	388.2	387.5	388.2	390.6
44.5°	358.3	359.1	361.4	369.7	373.8	369.7	361.4	359.1	358.3	359.1	361.4



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°	0.5	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°	1890.6	1892.7	1890.6	1883.9	1872.8	1865.3
22°	1832.3	1838.5	1832.3	1823.3	1812.2	1808.0



44°	397.8	402.2	397.8	390.6	388.2	387.5
44.5°	369.7	373.8	369.7	361.4	359.1	358.3

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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	0.5	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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(END OF REPORT)