

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: P775922

Luminaire Tested: HCDJBS1525CSD-HCD42TRMW-2000lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156A001)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD42TRMW-2000lm-3500K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1986.6 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

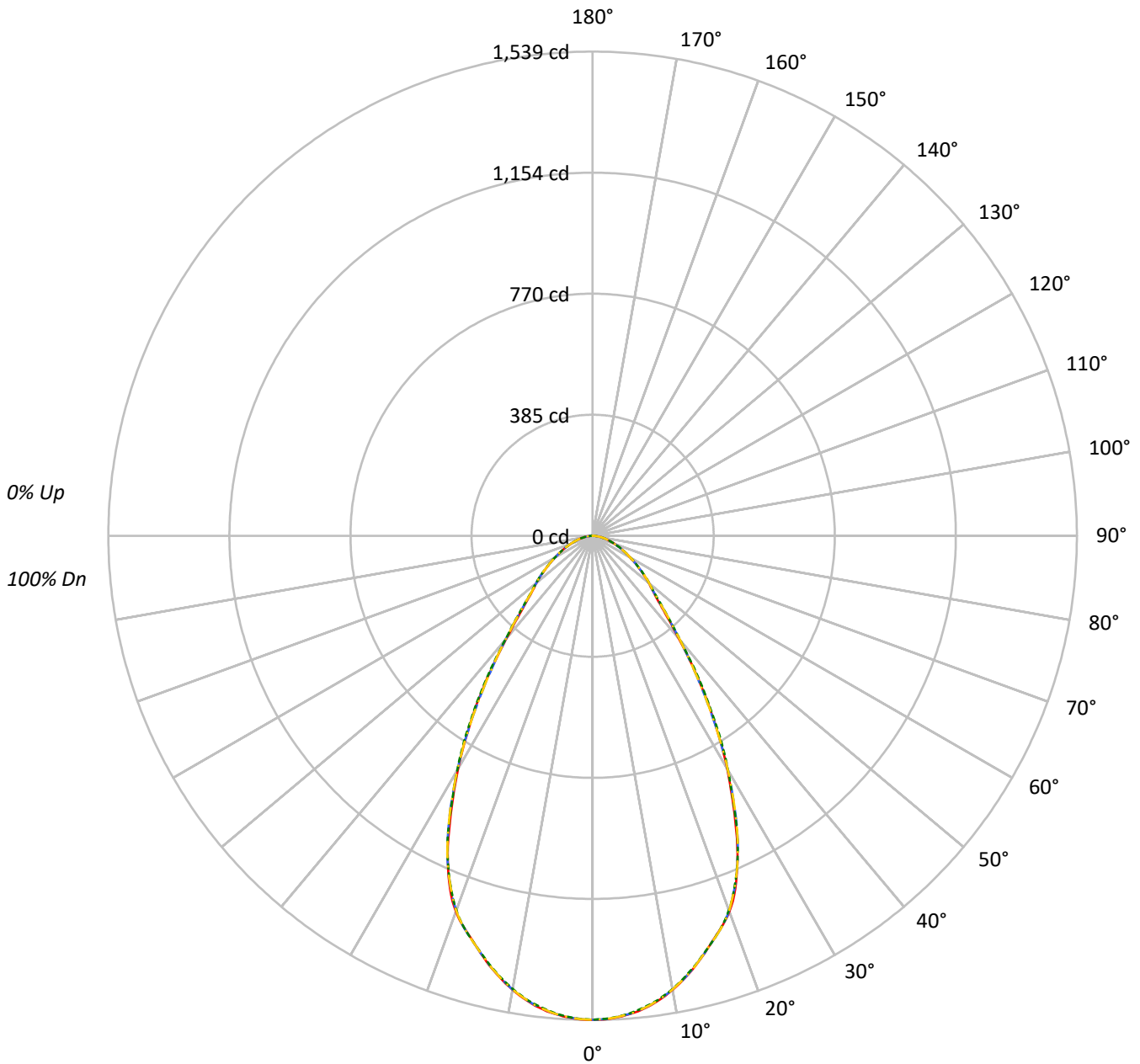
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775922

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3500K

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53								
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49								
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	193620	193620	193620	193620
5°	192250	191833	192250	191833
10°	187291	186869	187291	186869
15°	179004	178783	179004	178783
20°	170207	169591	170207	169591
25°	151066	151552	151066	151552
30°	124291	124945	124291	124945
35°	96421	97466	96421	97466
40°	70035	71251	70035	71251
45°	53020	54355	53020	54355
50°	45658	46030	45658	46030
55°	39692	40152	39692	40152
60°	34684	35011	34684	35011
65°	30493	30732	30493	30732
70°	26898	27082	26898	27082
75°	23632	23632	23632	23632
80°	20438	20293	20438	20293
85°	16317	16317	16317	16317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 54355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	7.2
10°-20°	385.9	19.4
20°-30°	494.2	24.9
30°-40°	391.6	19.7
40°-50°	239.8	12.1
50°-60°	163.9	8.3
60°-70°	102.6	5.2
70°-80°	52.0	2.6
80°-90°	13.1	0.7
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°	1023.5	51.5
0°-40°	1415.1	71.2
0°-60°	1818.9	91.6
0°-90°	1986.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1538	1538	1538	1538	1538	
5°	1522	1518	1522	1518	1522	143
15°	1374	1372	1374	1372	1374	386
25°	1088	1091	1088	1091	1088	493
35°	628	634	628	634	628	391
45°	298	305	298	305	298	237
55°	181	183	181	183	181	163
65°	102	103	102	103	102	102
75°	49	49	49	49	49	52
85°	11	11	11	11	11	13
90°	0	1	0	1	0	



TEST NUMBER: P775922

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5
0.5°	1538.7	1538.5	1538.1	1537.9	1537.3	1537.9	1538.1	1538.5	1538.7	1538.5	1538.1
1°	1538.1	1537.9	1537.7	1537.5	1536.7	1537.5	1537.7	1537.9	1538.1	1537.9	1537.7
1.5°	1537.3	1536.9	1536.9	1536.4	1535.8	1536.4	1536.9	1536.9	1537.3	1536.9	1536.9
2°	1536.0	1535.8	1535.4	1535.2	1534.4	1535.2	1535.4	1535.8	1536.0	1535.8	1535.4
2.5°	1534.6	1534.2	1533.8	1533.6	1532.5	1533.6	1533.8	1534.2	1534.6	1534.2	1533.8
3°	1532.5	1532.1	1531.7	1531.3	1530.3	1531.3	1531.7	1532.1	1532.5	1532.1	1531.7
3.5°	1530.3	1529.9	1529.2	1528.8	1528.2	1528.8	1529.2	1529.9	1530.3	1529.9	1529.2
4°	1527.6	1527.4	1526.6	1526.1	1525.1	1526.1	1526.6	1527.4	1527.6	1527.4	1526.6
4.5°	1524.7	1524.3	1523.5	1523.1	1521.8	1523.1	1523.5	1524.3	1524.7	1524.3	1523.5
5°	1521.8	1521.2	1520.4	1520.0	1518.5	1520.0	1520.4	1521.2	1521.8	1521.2	1520.4
5.5°	1518.7	1517.3	1516.3	1515.8	1514.6	1515.8	1516.3	1517.3	1518.7	1517.3	1516.3
6°	1514.0	1513.2	1512.1	1511.5	1509.9	1511.5	1512.1	1513.2	1514.0	1513.2	1512.1
6.5°	1509.2	1508.6	1507.4	1506.8	1505.1	1506.8	1507.4	1508.6	1509.2	1508.6	1507.4
7°	1504.3	1503.5	1502.9	1501.8	1500.4	1501.8	1502.9	1503.5	1504.3	1503.5	1502.9
7.5°	1498.7	1497.9	1497.1	1496.7	1495.2	1496.7	1497.1	1497.9	1498.7	1497.9	1497.1
8°	1492.8	1492.1	1491.3	1490.7	1489.9	1490.7	1491.3	1492.1	1492.8	1492.1	1491.3
8.5°	1486.6	1485.8	1484.9	1484.3	1483.5	1484.3	1484.9	1485.8	1486.6	1485.8	1484.9
9°	1480.0	1479.4	1478.3	1477.7	1476.9	1477.7	1478.3	1479.4	1480.0	1479.4	1478.3
9.5°	1472.8	1472.4	1471.3	1470.7	1469.9	1470.7	1471.3	1472.4	1472.8	1472.4	1471.3
10°	1465.6	1465.0	1464.1	1463.3	1462.3	1463.3	1464.1	1465.0	1465.6	1465.0	1464.1
10.5°	1457.5	1457.1	1456.1	1455.5	1454.6	1455.5	1456.1	1457.1	1457.5	1457.1	1456.1
11°	1449.5	1449.1	1448.3	1447.4	1446.4	1447.4	1448.3	1449.1	1449.5	1449.1	1448.3
11.5°	1441.1	1440.6	1439.8	1439.0	1438.2	1439.0	1439.8	1440.6	1441.1	1440.6	1439.8
12°	1432.4	1432.0	1431.4	1430.3	1429.5	1430.3	1431.4	1432.0	1432.4	1432.0	1431.4
12.5°	1423.3	1422.9	1422.3	1421.3	1420.2	1421.3	1422.3	1422.9	1423.3	1422.9	1422.3
13°	1414.1	1413.6	1413.0	1412.2	1411.2	1412.2	1413.0	1413.6	1414.1	1413.6	1413.0
13.5°	1404.4	1404.0	1403.6	1402.7	1401.9	1402.7	1403.6	1404.0	1404.4	1404.0	1403.6
14°	1394.5	1394.3	1393.9	1393.0	1392.2	1393.0	1393.9	1394.3	1394.5	1394.3	1393.9
14.5°	1384.2	1384.0	1383.8	1382.9	1382.1	1382.9	1383.8	1384.0	1384.2	1384.0	1383.8
15°	1373.9	1373.9	1373.5	1373.1	1372.2	1373.1	1373.5	1373.9	1373.9	1373.9	1373.5
15.5°	1363.2	1363.2	1363.6	1363.2	1362.8	1363.2	1363.6	1363.2	1363.2	1363.2	1363.6
16°	1352.9	1353.1	1353.7	1353.5	1353.1	1353.5	1353.7	1353.1	1352.9	1353.1	1353.7
16.5°	1342.6	1343.0	1343.8	1343.8	1343.6	1343.8	1343.8	1343.0	1342.6	1343.0	1343.8
17°	1332.9	1333.3	1334.1	1333.9	1334.1	1333.9	1334.1	1333.3	1332.9	1333.3	1334.1
17.5°	1323.4	1323.8	1324.4	1324.2	1324.0	1324.2	1324.4	1323.8	1323.4	1323.8	1324.4
18°	1314.1	1314.3	1314.7	1314.3	1313.9	1314.3	1314.7	1314.3	1314.1	1314.3	1314.7
18.5°	1304.2	1304.2	1304.2	1303.8	1303.2	1303.8	1304.2	1304.2	1304.2	1304.2	1304.2
19°	1294.1	1293.5	1293.1	1292.5	1291.9	1292.5	1293.1	1293.5	1294.1	1293.5	1293.1
19.5°	1283.0	1282.2	1281.0	1280.5	1279.9	1280.5	1281.0	1282.2	1283.0	1282.2	1281.0
20°	1270.9	1269.8	1267.6	1267.8	1266.3	1267.8	1267.6	1269.8	1270.9	1269.8	1267.6
20.5°	1257.5	1255.8	1253.1	1254.0	1252.3	1254.0	1253.1	1255.8	1257.5	1255.8	1253.1
21°	1243.5	1241.0	1237.9	1238.9	1236.9	1238.9	1237.9	1241.0	1243.5	1241.0	1237.9



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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°	1192.2	1189.7	1187.6	1187.4	1186.4	1187.4	1187.6	1189.7	1192.2	1189.7	1187.6
23°	1172.6	1170.5	1170.1	1168.7	1168.3	1168.7	1170.1	1170.5	1172.6	1170.5	1170.1
23.5°	1152.6	1150.7	1151.8	1149.3	1150.3	1149.3	1151.8	1150.7	1152.6	1150.7	1151.8
24°	1131.8	1130.3	1132.8	1129.5	1131.4	1129.5	1132.8	1130.3	1131.8	1130.3	1132.8
24.5°	1110.4	1109.7	1112.8	1109.5	1112.0	1109.5	1112.8	1109.7	1110.4	1109.7	1112.8
25°	1087.9	1088.3	1092.0	1089.5	1091.4	1089.5	1092.0	1088.3	1087.9	1088.3	1092.0
25.5°	1064.6	1067.3	1070.6	1069.6	1070.0	1069.6	1070.6	1067.3	1064.6	1067.3	1070.6
26°	1040.7	1045.5	1048.5	1048.7	1047.1	1048.7	1048.5	1045.5	1040.7	1045.5	1048.5
26.5°	1016.2	1023.2	1025.7	1027.1	1023.4	1027.1	1025.7	1023.2	1016.2	1023.2	1025.7
27°	992.3	1000.1	1002.6	1004.9	999.3	1004.9	1002.6	1000.1	992.3	1000.1	1002.6
27.5°	968.8	976.2	979.1	982.0	974.8	982.0	979.1	976.2	968.8	976.2	979.1
28°	945.3	952.3	955.2	958.1	950.3	958.1	955.2	952.3	945.3	952.3	955.2
28.5°	922.4	928.0	931.3	933.8	926.6	933.8	931.3	928.0	922.4	928.0	931.3
29°	899.8	903.5	907.4	909.1	904.1	909.1	907.4	903.5	899.8	903.5	907.4
29.5°	877.5	879.4	883.7	884.3	882.1	884.3	883.7	879.4	877.5	879.4	883.7
30°	855.3	854.7	859.4	859.6	859.8	859.6	859.4	854.7	855.3	854.7	859.4
30.5°	832.2	830.8	835.3	835.7	838.8	835.7	835.3	830.8	832.2	830.8	835.3
31°	809.3	806.2	811.0	811.8	816.5	811.8	811.0	806.2	809.3	806.2	811.0
31.5°	785.8	782.7	786.7	788.1	794.1	788.1	786.7	782.7	785.8	782.7	786.7
32°	761.9	759.1	762.6	764.8	771.0	764.8	762.6	759.1	761.9	759.1	762.6
32.5°	738.9	736.4	738.9	741.7	747.9	741.7	738.9	736.4	738.9	736.4	738.9
33°	715.6	713.7	714.5	718.7	724.4	718.7	714.5	713.7	715.6	713.7	714.5
33.5°	694.8	691.1	690.4	695.6	700.7	695.6	690.4	691.1	694.8	691.1	690.4
34°	672.3	668.4	666.5	672.9	678.3	672.9	666.5	668.4	672.3	668.4	666.5
34.5°	650.1	645.9	643.3	650.1	656.0	650.1	643.3	645.9	650.1	645.9	643.3
35°	627.6	624.1	621.2	628.0	634.4	628.0	621.2	624.1	627.6	624.1	621.2
35.5°	605.8	602.5	599.4	606.2	613.2	606.2	599.4	602.5	605.8	602.5	599.4
36°	584.3	580.8	578.2	585.2	592.4	585.2	578.2	580.8	584.3	580.8	578.2
36.5°	563.1	560.0	557.5	564.3	571.1	564.3	557.5	560.0	563.1	560.0	557.5
37°	541.7	539.4	537.4	544.2	550.1	544.2	537.4	539.4	541.7	539.4	537.4
37.5°	520.9	519.4	518.0	524.8	529.1	524.8	518.0	519.4	520.9	519.4	518.0
38°	500.3	500.1	499.4	505.8	508.3	505.8	499.4	500.1	500.3	500.1	499.4
38.5°	480.9	481.3	481.7	487.3	488.3	487.3	481.7	481.3	480.9	481.3	481.7
39°	462.1	463.2	464.0	469.4	469.2	469.4	464.0	463.2	462.1	463.2	464.0
39.5°	443.8	445.7	447.1	451.6	451.0	451.6	447.1	445.7	443.8	445.7	447.1
40°	426.3	428.4	430.8	434.5	433.7	434.5	430.8	428.4	426.3	428.4	430.8
40.5°	409.8	411.9	415.2	417.9	417.6	417.9	415.2	411.9	409.8	411.9	415.2
41°	394.0	396.0	400.3	402.2	402.8	402.2	400.3	396.0	394.0	396.0	400.3
41.5°	378.9	381.2	386.1	387.2	389.0	387.2	386.1	381.2	378.9	381.2	386.1
42°	364.9	367.2	372.5	373.1	375.6	373.1	372.5	367.2	364.9	367.2	372.5
42.5°	351.7	354.0	359.7	360.0	362.6	360.0	359.7	354.0	351.7	354.0	359.7
43°	339.1	341.6	347.2	347.6	350.1	347.6	347.2	341.6	339.1	341.6	347.2
43.5°	327.6	330.1	335.4	335.6	337.9	335.6	335.4	330.1	327.6	330.1	335.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	297.9	300.0	303.3	304.3	305.4	304.3	303.3	300.0	297.9	300.0	303.3
45.5°	289.3	290.9	294.0	295.1	295.9	295.1	294.0	290.9	289.3	290.9	294.0
46°	281.0	282.5	285.2	286.6	287.0	286.6	285.2	282.5	281.0	282.5	285.2
46.5°	273.4	274.7	276.7	278.4	278.8	278.4	276.7	274.7	273.4	274.7	276.7
47°	266.2	267.0	269.1	270.7	271.4	270.7	269.1	267.0	266.2	267.0	269.1
47.5°	259.4	260.0	261.9	263.7	264.6	263.7	261.9	260.0	259.4	260.0	261.9
48°	253.0	253.8	255.7	257.3	258.2	257.3	255.7	253.8	253.0	253.8	255.7
48.5°	247.9	248.3	249.7	251.4	252.0	251.4	249.7	248.3	247.9	248.3	249.7
49°	242.9	243.1	244.4	245.6	246.2	245.6	244.4	243.1	242.9	243.1	244.4
49.5°	238.2	238.4	239.2	240.2	240.4	240.2	239.2	238.4	238.2	238.4	239.2
50°	233.2	233.4	234.1	234.9	235.1	234.9	234.1	233.4	233.2	233.4	234.1
50.5°	228.3	228.5	228.9	229.7	229.7	229.7	228.9	228.5	228.3	228.5	228.9
51°	222.7	223.1	223.8	224.6	224.6	224.6	223.8	223.1	222.7	223.1	223.8
51.5°	217.4	217.6	218.4	219.4	219.6	219.4	218.4	217.6	217.4	217.6	218.4
52°	211.8	212.2	213.0	214.1	214.3	214.1	213.0	212.2	211.8	212.2	213.0
52.5°	206.2	206.7	207.7	208.5	208.9	208.5	207.7	206.7	206.2	206.7	207.7
53°	201.1	201.5	202.3	203.2	203.6	203.2	202.3	201.5	201.1	201.5	202.3
53.5°	195.7	196.2	197.0	198.0	198.4	198.0	197.0	196.2	195.7	196.2	197.0
54°	190.8	191.0	191.8	192.6	193.1	192.6	191.8	191.0	190.8	191.0	191.8
54.5°	185.8	186.1	186.9	187.7	188.1	187.7	186.9	186.1	185.8	186.1	186.9
55°	180.9	181.3	182.1	182.8	183.0	182.8	182.1	181.3	180.9	181.3	182.1
55.5°	176.2	176.6	177.4	178.0	178.2	178.0	177.4	176.6	176.2	176.6	177.4
56°	171.6	172.0	172.7	173.3	173.5	173.3	172.7	172.0	171.6	172.0	172.7
56.5°	167.1	167.5	168.1	168.7	169.0	168.7	168.1	167.5	167.1	167.5	168.1
57°	162.6	163.0	163.6	164.2	164.4	164.2	163.6	163.0	162.6	163.0	163.6
57.5°	158.0	158.7	159.3	159.7	160.1	159.7	159.3	158.7	158.0	158.7	159.3
58°	154.1	154.3	154.9	155.6	155.8	155.6	154.9	154.3	154.1	154.3	154.9
58.5°	150.0	150.2	150.8	151.2	151.4	151.2	150.8	150.2	150.0	150.2	150.8
59°	145.9	146.1	146.5	146.9	147.3	146.9	146.5	146.1	145.9	146.1	146.5
59.5°	141.8	142.0	142.4	143.0	143.2	143.0	142.4	142.0	141.8	142.0	142.4
60°	137.8	138.0	138.5	138.9	139.1	138.9	138.5	138.0	137.8	138.0	138.5
60.5°	133.9	134.1	134.5	135.0	135.2	135.0	134.5	134.1	133.9	134.1	134.5
61°	130.2	130.4	130.8	131.2	131.5	131.2	130.8	130.4	130.2	130.4	130.8
61.5°	126.5	126.7	127.1	127.5	127.7	127.5	127.1	126.7	126.5	126.7	127.1
62°	123.0	123.0	123.4	123.8	123.8	123.8	123.4	123.0	123.0	123.0	123.4
62.5°	119.3	119.5	119.7	120.1	120.3	120.1	119.7	119.5	119.3	119.5	119.7
63°	115.8	116.0	116.2	116.6	116.6	116.6	116.2	116.0	115.8	116.0	116.2
63.5°	112.3	112.5	112.7	113.1	113.3	113.1	112.7	112.5	112.3	112.5	112.7
64°	109.0	109.2	109.4	109.6	109.8	109.6	109.4	109.2	109.0	109.2	109.4
64.5°	105.7	105.9	106.1	106.3	106.5	106.3	106.1	105.9	105.7	105.9	106.1
65°	102.4	102.6	102.8	103.0	103.2	103.0	102.8	102.6	102.4	102.6	102.8
65.5°	99.3	99.3	99.5	99.9	99.9	99.9	99.5	99.3	99.3	99.3	99.5
66°	96.0	96.2	96.4	96.6	96.8	96.6	96.4	96.2	96.0	96.2	96.4



TEST NUMBER: P775922

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	86.9	87.2	87.4	87.6	87.6	87.6	87.4	87.2	86.9	87.2	87.4
68°	84.1	84.3	84.5	84.7	84.7	84.7	84.5	84.3	84.1	84.3	84.5
68.5°	81.2	81.4	81.6	81.6	81.8	81.6	81.6	81.4	81.2	81.4	81.6
69°	78.5	78.5	78.5	78.9	78.9	78.9	78.5	78.5	78.5	78.5	78.5
69.5°	75.6	75.8	75.8	76.0	76.2	76.0	75.8	75.8	75.6	75.8	75.8
70°	73.1	73.4	73.1	73.4	73.6	73.4	73.1	73.4	73.1	73.4	73.1
70.5°	70.5	70.7	70.7	70.7	70.9	70.7	70.7	70.7	70.5	70.7	70.7
71°	68.0	68.0	68.0	68.0	68.2	68.0	68.0	68.0	68.0	68.0	68.0
71.5°	65.3	65.3	65.5	65.5	65.5	65.5	65.5	65.3	65.3	65.3	65.5
72°	62.8	62.8	62.8	63.0	63.0	63.0	62.8	62.8	62.8	62.8	62.8
72.5°	60.4	60.4	60.4	60.6	60.6	60.6	60.4	60.4	60.4	60.4	60.4
73°	57.9	57.9	57.9	58.1	58.1	58.1	57.9	57.9	57.9	57.9	57.9
73.5°	55.4	55.4	55.6	55.6	55.6	55.6	55.6	55.4	55.4	55.4	55.6
74°	53.2	53.2	53.2	53.4	53.4	53.4	53.2	53.2	53.2	53.2	53.2
74.5°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
75°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
75.5°	46.4	46.4	46.4	46.4	46.6	46.4	46.4	46.4	46.4	46.4	46.4
76°	44.3	44.1	44.1	44.3	44.3	44.3	44.1	44.1	44.3	44.1	44.1
76.5°	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
77°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
77.5°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
78°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
78.5°	34.0	34.0	33.8	33.8	34.0	33.8	33.8	34.0	34.0	34.0	33.8
79°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
79.5°	30.1	30.1	29.9	30.1	30.1	30.1	29.9	30.1	30.1	30.1	29.9
80°	28.2	28.2	28.0	28.0	28.0	28.0	28.0	28.2	28.2	28.2	28.0
80.5°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
81°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
81.5°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
82°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
82.5°	19.4	19.4	19.4	19.4	19.2	19.4	19.4	19.4	19.4	19.4	19.4
83°	17.7	17.7	17.7	17.5	17.5	17.5	17.7	17.7	17.7	17.7	17.7
83.5°	16.1	16.1	16.1	15.9	15.9	15.9	16.1	16.1	16.1	16.1	16.1
84°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
84.5°	13.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.0	12.8	12.8
85°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
85.5°	9.9	9.7	9.9	9.7	9.9	9.7	9.9	9.7	9.9	9.7	9.9
86°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
86.5°	7.0	6.8	6.8	6.8	7.0	6.8	6.8	6.8	7.0	6.8	6.8
87°	5.6	5.6	5.6	5.4	5.6	5.4	5.6	5.6	5.6	5.6	5.6
87.5°	4.1	4.1	4.1	4.1	4.3	4.1	4.1	4.1	4.1	4.1	4.1
88°	2.7	2.9	2.9	3.1	3.1	3.1	2.9	2.9	2.7	2.9	2.9
88.5°	1.6	1.6	1.9	2.1	2.5	2.1	1.9	1.6	1.6	1.6	1.9



TEST NUMBER: P775922
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.2	0.4	0.6	0.4	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P775922

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5
0.5°	1537.9	1537.3	1537.9	1538.1	1538.5	1538.7
1°	1537.5	1536.7	1537.5	1537.7	1537.9	1538.1
1.5°	1536.4	1535.8	1536.4	1536.9	1536.9	1537.3
2°	1535.2	1534.4	1535.2	1535.4	1535.8	1536.0
2.5°	1533.6	1532.5	1533.6	1533.8	1534.2	1534.6
3°	1531.3	1530.3	1531.3	1531.7	1532.1	1532.5
3.5°	1528.8	1528.2	1528.8	1529.2	1529.9	1530.3
4°	1526.1	1525.1	1526.1	1526.6	1527.4	1527.6
4.5°	1523.1	1521.8	1523.1	1523.5	1524.3	1524.7
5°	1520.0	1518.5	1520.0	1520.4	1521.2	1521.8
5.5°	1515.8	1514.6	1515.8	1516.3	1517.3	1518.7
6°	1511.5	1509.9	1511.5	1512.1	1513.2	1514.0
6.5°	1506.8	1505.1	1506.8	1507.4	1508.6	1509.2
7°	1501.8	1500.4	1501.8	1502.9	1503.5	1504.3
7.5°	1496.7	1495.2	1496.7	1497.1	1497.9	1498.7
8°	1490.7	1489.9	1490.7	1491.3	1492.1	1492.8
8.5°	1484.3	1483.5	1484.3	1484.9	1485.8	1486.6
9°	1477.7	1476.9	1477.7	1478.3	1479.4	1480.0
9.5°	1470.7	1469.9	1470.7	1471.3	1472.4	1472.8
10°	1463.3	1462.3	1463.3	1464.1	1465.0	1465.6
10.5°	1455.5	1454.6	1455.5	1456.1	1457.1	1457.5
11°	1447.4	1446.4	1447.4	1448.3	1449.1	1449.5
11.5°	1439.0	1438.2	1439.0	1439.8	1440.6	1441.1
12°	1430.3	1429.5	1430.3	1431.4	1432.0	1432.4
12.5°	1421.3	1420.2	1421.3	1422.3	1422.9	1423.3
13°	1412.2	1411.2	1412.2	1413.0	1413.6	1414.1
13.5°	1402.7	1401.9	1402.7	1403.6	1404.0	1404.4
14°	1393.0	1392.2	1393.0	1393.9	1394.3	1394.5
14.5°	1382.9	1382.1	1382.9	1383.8	1384.0	1384.2
15°	1373.1	1372.2	1373.1	1373.5	1373.9	1373.9
15.5°	1363.2	1362.8	1363.2	1363.6	1363.2	1363.2
16°	1353.5	1353.1	1353.5	1353.7	1353.1	1352.9
16.5°	1343.8	1343.6	1343.8	1343.8	1343.0	1342.6
17°	1333.9	1334.1	1333.9	1334.1	1333.3	1332.9
17.5°	1324.2	1324.0	1324.2	1324.4	1323.8	1323.4
18°	1314.3	1313.9	1314.3	1314.7	1314.3	1314.1
18.5°	1303.8	1303.2	1303.8	1304.2	1304.2	1304.2
19°	1292.5	1291.9	1292.5	1293.1	1293.5	1294.1
19.5°	1280.5	1279.9	1280.5	1281.0	1282.2	1283.0
20°	1267.8	1266.3	1267.8	1267.6	1269.8	1270.9
20.5°	1254.0	1252.3	1254.0	1253.1	1255.8	1257.5
21°	1238.9	1236.9	1238.9	1237.9	1241.0	1243.5



TEST NUMBER: P775922

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1187.4	1186.4	1187.4	1187.6	1189.7	1192.2
23°	1168.7	1168.3	1168.7	1170.1	1170.5	1172.6
23.5°	1149.3	1150.3	1149.3	1151.8	1150.7	1152.6
24°	1129.5	1131.4	1129.5	1132.8	1130.3	1131.8
24.5°	1109.5	1112.0	1109.5	1112.8	1109.7	1110.4
25°	1089.5	1091.4	1089.5	1092.0	1088.3	1087.9
25.5°	1069.6	1070.0	1069.6	1070.6	1067.3	1064.6
26°	1048.7	1047.1	1048.7	1048.5	1045.5	1040.7
26.5°	1027.1	1023.4	1027.1	1025.7	1023.2	1016.2
27°	1004.9	999.3	1004.9	1002.6	1000.1	992.3
27.5°	982.0	974.8	982.0	979.1	976.2	968.8
28°	958.1	950.3	958.1	955.2	952.3	945.3
28.5°	933.8	926.6	933.8	931.3	928.0	922.4
29°	909.1	904.1	909.1	907.4	903.5	899.8
29.5°	884.3	882.1	884.3	883.7	879.4	877.5
30°	859.6	859.8	859.6	859.4	854.7	855.3
30.5°	835.7	838.8	835.7	835.3	830.8	832.2
31°	811.8	816.5	811.8	811.0	806.2	809.3
31.5°	788.1	794.1	788.1	786.7	782.7	785.8
32°	764.8	771.0	764.8	762.6	759.1	761.9
32.5°	741.7	747.9	741.7	738.9	736.4	738.9
33°	718.7	724.4	718.7	714.5	713.7	715.6
33.5°	695.6	700.7	695.6	690.4	691.1	694.8
34°	672.9	678.3	672.9	666.5	668.4	672.3
34.5°	650.1	656.0	650.1	643.3	645.9	650.1
35°	628.0	634.4	628.0	621.2	624.1	627.6
35.5°	606.2	613.2	606.2	599.4	602.5	605.8
36°	585.2	592.4	585.2	578.2	580.8	584.3
36.5°	564.3	571.1	564.3	557.5	560.0	563.1
37°	544.2	550.1	544.2	537.4	539.4	541.7
37.5°	524.8	529.1	524.8	518.0	519.4	520.9
38°	505.8	508.3	505.8	499.4	500.1	500.3
38.5°	487.3	488.3	487.3	481.7	481.3	480.9
39°	469.4	469.2	469.4	464.0	463.2	462.1
39.5°	451.6	451.0	451.6	447.1	445.7	443.8
40°	434.5	433.7	434.5	430.8	428.4	426.3
40.5°	417.9	417.6	417.9	415.2	411.9	409.8
41°	402.2	402.8	402.2	400.3	396.0	394.0
41.5°	387.2	389.0	387.2	386.1	381.2	378.9
42°	373.1	375.6	373.1	372.5	367.2	364.9
42.5°	360.0	362.6	360.0	359.7	354.0	351.7
43°	347.6	350.1	347.6	347.2	341.6	339.1
43.5°	335.6	337.9	335.6	335.4	330.1	327.6



TEST NUMBER: P775922

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	304.3	305.4	304.3	303.3	300.0	297.9
45.5°	295.1	295.9	295.1	294.0	290.9	289.3
46°	286.6	287.0	286.6	285.2	282.5	281.0
46.5°	278.4	278.8	278.4	276.7	274.7	273.4
47°	270.7	271.4	270.7	269.1	267.0	266.2
47.5°	263.7	264.6	263.7	261.9	260.0	259.4
48°	257.3	258.2	257.3	255.7	253.8	253.0
48.5°	251.4	252.0	251.4	249.7	248.3	247.9
49°	245.6	246.2	245.6	244.4	243.1	242.9
49.5°	240.2	240.4	240.2	239.2	238.4	238.2
50°	234.9	235.1	234.9	234.1	233.4	233.2
50.5°	229.7	229.7	229.7	228.9	228.5	228.3
51°	224.6	224.6	224.6	223.8	223.1	222.7
51.5°	219.4	219.6	219.4	218.4	217.6	217.4
52°	214.1	214.3	214.1	213.0	212.2	211.8
52.5°	208.5	208.9	208.5	207.7	206.7	206.2
53°	203.2	203.6	203.2	202.3	201.5	201.1
53.5°	198.0	198.4	198.0	197.0	196.2	195.7
54°	192.6	193.1	192.6	191.8	191.0	190.8
54.5°	187.7	188.1	187.7	186.9	186.1	185.8
55°	182.8	183.0	182.8	182.1	181.3	180.9
55.5°	178.0	178.2	178.0	177.4	176.6	176.2
56°	173.3	173.5	173.3	172.7	172.0	171.6
56.5°	168.7	169.0	168.7	168.1	167.5	167.1
57°	164.2	164.4	164.2	163.6	163.0	162.6
57.5°	159.7	160.1	159.7	159.3	158.7	158.0
58°	155.6	155.8	155.6	154.9	154.3	154.1
58.5°	151.2	151.4	151.2	150.8	150.2	150.0
59°	146.9	147.3	146.9	146.5	146.1	145.9
59.5°	143.0	143.2	143.0	142.4	142.0	141.8
60°	138.9	139.1	138.9	138.5	138.0	137.8
60.5°	135.0	135.2	135.0	134.5	134.1	133.9
61°	131.2	131.5	131.2	130.8	130.4	130.2
61.5°	127.5	127.7	127.5	127.1	126.7	126.5
62°	123.8	123.8	123.8	123.4	123.0	123.0
62.5°	120.1	120.3	120.1	119.7	119.5	119.3
63°	116.6	116.6	116.6	116.2	116.0	115.8
63.5°	113.1	113.3	113.1	112.7	112.5	112.3
64°	109.6	109.8	109.6	109.4	109.2	109.0
64.5°	106.3	106.5	106.3	106.1	105.9	105.7
65°	103.0	103.2	103.0	102.8	102.6	102.4
65.5°	99.9	99.9	99.9	99.5	99.3	99.3
66°	96.6	96.8	96.6	96.4	96.2	96.0



TEST NUMBER: P775922

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	87.6	87.6	87.6	87.4	87.2	86.9
68°	84.7	84.7	84.7	84.5	84.3	84.1
68.5°	81.6	81.8	81.6	81.6	81.4	81.2
69°	78.9	78.9	78.9	78.5	78.5	78.5
69.5°	76.0	76.2	76.0	75.8	75.8	75.6
70°	73.4	73.6	73.4	73.1	73.4	73.1
70.5°	70.7	70.9	70.7	70.7	70.7	70.5
71°	68.0	68.2	68.0	68.0	68.0	68.0
71.5°	65.5	65.5	65.5	65.5	65.3	65.3
72°	63.0	63.0	63.0	62.8	62.8	62.8
72.5°	60.6	60.6	60.6	60.4	60.4	60.4
73°	58.1	58.1	58.1	57.9	57.9	57.9
73.5°	55.6	55.6	55.6	55.6	55.4	55.4
74°	53.4	53.4	53.4	53.2	53.2	53.2
74.5°	50.9	50.9	50.9	50.9	50.9	50.9
75°	48.6	48.6	48.6	48.6	48.6	48.6
75.5°	46.4	46.6	46.4	46.4	46.4	46.4
76°	44.3	44.3	44.3	44.1	44.1	44.3
76.5°	42.0	42.0	42.0	42.0	42.0	42.0
77°	40.0	40.0	40.0	40.0	40.0	40.0
77.5°	37.9	37.9	37.9	37.9	37.9	37.9
78°	35.9	35.9	35.9	35.9	35.9	35.9
78.5°	33.8	34.0	33.8	33.8	34.0	34.0
79°	31.9	31.9	31.9	31.9	31.9	31.9
79.5°	30.1	30.1	30.1	29.9	30.1	30.1
80°	28.0	28.0	28.0	28.0	28.2	28.2
80.5°	26.4	26.4	26.4	26.4	26.4	26.4
81°	24.5	24.5	24.5	24.5	24.5	24.5
81.5°	22.7	22.7	22.7	22.7	22.7	22.7
82°	21.0	21.0	21.0	21.0	21.0	21.0
82.5°	19.4	19.2	19.4	19.4	19.4	19.4
83°	17.5	17.5	17.5	17.7	17.7	17.7
83.5°	15.9	15.9	15.9	16.1	16.1	16.1
84°	14.4	14.4	14.4	14.4	14.4	14.4
84.5°	12.8	12.8	12.8	12.8	12.8	13.0
85°	11.3	11.3	11.3	11.3	11.3	11.3
85.5°	9.7	9.9	9.7	9.9	9.7	9.9
86°	8.2	8.2	8.2	8.2	8.2	8.2
86.5°	6.8	7.0	6.8	6.8	6.8	7.0
87°	5.4	5.6	5.4	5.6	5.6	5.6
87.5°	4.1	4.3	4.1	4.1	4.1	4.1
88°	3.1	3.1	3.1	2.9	2.9	2.7
88.5°	2.1	2.5	2.1	1.9	1.6	1.6



TEST NUMBER: P775922
CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.4	0.6	0.4	0.2	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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21.5°	1227.2	1225.1	1221.6	1222.6	1220.6	1222.6	1221.6	1225.1	1227.2	1225.1	1221.6
22°	1210.1	1208.0	1204.9	1205.3	1203.3	1205.3	1204.9	1208.0	1210.1	1208.0	1204.9



44°	316.9	319.4	324.1	324.5	326.6	324.5	324.1	319.4	316.9	319.4	324.1
44.5°	307.0	309.5	313.6	314.2	315.7	314.2	313.6	309.5	307.0	309.5	313.6



66.5°	92.9	93.1	93.3	93.5	93.7	93.5	93.3	93.1	92.9	93.1	93.3
67°	90.0	90.0	90.2	90.5	90.7	90.5	90.2	90.0	90.0	90.0	90.2



89°	0.6	0.8	1.2	1.4	1.6	1.4	1.2	0.8	0.6	0.8	1.2
89.5°	0.0	0.2	0.6	0.8	1.0	0.8	0.6	0.2	0.0	0.2	0.6

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21.5°	1222.6	1220.6	1222.6	1221.6	1225.1	1227.2
22°	1205.3	1203.3	1205.3	1204.9	1208.0	1210.1



44°	324.5	326.6	324.5	324.1	319.4	316.9
44.5°	314.2	315.7	314.2	313.6	309.5	307.0

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66.5°	93.5	93.7	93.5	93.3	93.1	92.9
67°	90.5	90.7	90.5	90.2	90.0	90.0



89°	1.4	1.6	1.4	1.2	0.8	0.6
89.5°	0.8	1.0	0.8	0.6	0.2	0.0

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(END OF REPORT)