

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: P775992

Luminaire Tested: HCDJBS1525CSD-HCD4TRMB-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TRMB-2500lm-3500K
Description: 4 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1588.9 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.94
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

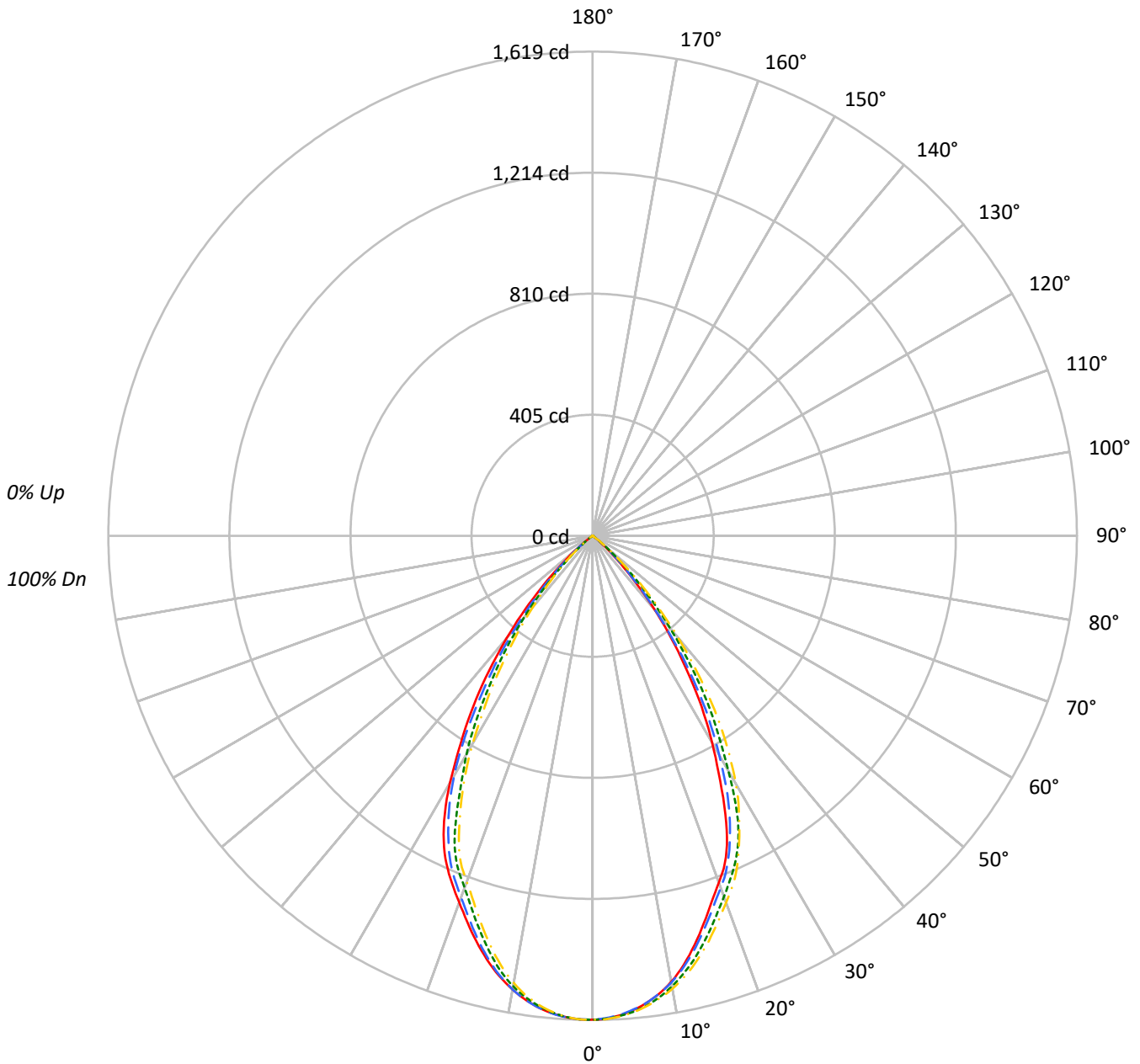
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86								
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	82	80								
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74								
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69								
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64								
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59								
8	78	68	62	58	77	67	62	57	66	61	57	65	60	57	64	60	57	55								
9	74	64	58	54	73	63	58	54	62	57	53	62	57	53	61	56	53	52								
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	203675	203675	203675	203675
5°	201004	201699	202293	201914
10°	193476	195406	196875	195469
15°	179669	184646	187121	182548
20°	165265	171922	174640	167689
25°	146761	159369	162508	151288
30°	116139	131775	138518	122373
35°	84422	100308	106822	89937
40°	52851	66240	73501	58075
45°	23885	35507	40899	27284
50°	6931	10866	14155	8164
55°	1097	1097	1492	1382
60°	453	453	503	453
65°	298	298	298	298
70°	184	294	294	294
75°	146	243	146	243
80°	0	217	217	217
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°
 Vertical Angle: 45°
 Luminance: 40899 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	9.5
10°-20°	394.1	24.8
20°-30°	503.0	31.7
30°-40°	384.5	24.2
40°-50°	143.7	9.0
50°-60°	11.7	0.7
60°-70°	1.1	0.1
70°-80°	0.4	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°	1047.3	65.9
0°-40°	1431.9	90.1
0°-60°	1587.3	99.9
0°-90°	1588.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1618	1618	1618	1618	1618	
5°	1591	1597	1601	1598	1591	149
15°	1379	1417	1436	1401	1379	386
25°	1057	1148	1170	1090	1057	475
35°	550	653	695	585	550	342
45°	134	200	230	153	134	113
55°	5	5	7	6	5	8
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°	1618.4	1618.4	1618.4	1618.4	1618.4	1618.4	1618.4	1618.4	1618.4	1618.4	1618.4
0.5°	1617.9	1616.7	1616.7	1616.7	1617.9	1618.2	1618.9	1619.4	1618.7	1617.9	1617.9
1°	1616.9	1615.6	1615.4	1615.6	1616.9	1617.4	1618.2	1618.7	1618.4	1617.9	1617.7
1.5°	1615.4	1613.9	1613.6	1613.9	1615.6	1616.4	1617.2	1617.9	1617.4	1617.2	1617.4
2°	1613.4	1611.9	1611.4	1611.9	1614.1	1614.9	1615.6	1616.4	1616.4	1616.2	1616.4
2.5°	1610.9	1609.1	1608.9	1609.6	1612.1	1612.9	1613.6	1614.6	1614.9	1614.6	1614.9
3°	1607.9	1606.1	1605.9	1606.9	1609.6	1610.6	1611.4	1612.4	1612.9	1612.9	1613.1
3.5°	1604.4	1602.4	1602.6	1603.9	1606.9	1607.9	1608.9	1609.9	1610.6	1610.9	1610.9
4°	1600.3	1598.6	1598.6	1600.1	1603.9	1604.9	1605.6	1606.9	1607.9	1608.4	1608.4
4.5°	1595.8	1594.1	1594.3	1596.3	1600.6	1601.6	1602.4	1603.6	1604.9	1605.4	1605.4
5°	1591.1	1589.1	1589.3	1591.8	1596.6	1597.6	1598.3	1599.8	1601.3	1602.1	1601.8
5.5°	1585.5	1583.3	1584.3	1586.8	1592.1	1593.1	1594.1	1595.6	1597.3	1598.1	1597.6
6°	1579.8	1577.5	1578.5	1581.5	1587.3	1588.3	1589.3	1591.1	1593.1	1593.8	1593.1
6.5°	1573.5	1571.5	1572.7	1575.8	1581.8	1583.3	1584.3	1586.0	1588.3	1589.1	1588.3
7°	1566.7	1564.7	1566.2	1569.2	1575.8	1577.5	1578.8	1580.8	1582.8	1583.8	1583.0
7.5°	1559.4	1557.7	1558.9	1562.2	1569.2	1571.2	1573.0	1574.8	1576.8	1578.0	1577.3
8°	1551.7	1550.2	1551.4	1554.9	1562.2	1564.5	1566.7	1568.7	1570.7	1571.5	1570.7
8.5°	1543.1	1542.1	1543.6	1546.9	1554.7	1557.2	1560.2	1562.0	1563.7	1565.0	1564.0
9°	1534.1	1533.3	1535.1	1538.4	1546.6	1549.9	1553.2	1554.9	1556.7	1557.4	1556.7
9.5°	1524.1	1524.1	1526.1	1529.6	1538.1	1541.9	1545.6	1547.9	1548.9	1549.7	1548.9
10°	1514.0	1514.0	1516.3	1520.1	1529.1	1533.6	1537.6	1539.9	1540.6	1541.1	1540.4
10.5°	1503.5	1503.5	1506.0	1510.3	1520.3	1524.6	1529.1	1531.6	1532.1	1532.3	1531.3
11°	1491.4	1491.9	1495.2	1499.5	1510.3	1515.3	1520.3	1522.8	1523.3	1523.1	1521.8
11.5°	1479.2	1480.2	1483.9	1488.4	1500.0	1505.7	1511.3	1513.5	1513.5	1513.3	1511.5
12°	1466.1	1467.6	1471.9	1476.9	1489.7	1495.7	1501.5	1504.0	1504.0	1503.0	1501.2
12.5°	1452.6	1454.3	1459.1	1465.1	1478.4	1484.9	1491.2	1494.0	1493.7	1492.2	1490.2
13°	1438.5	1440.8	1446.3	1452.8	1466.9	1473.9	1480.9	1483.7	1482.9	1480.9	1477.9
13.5°	1423.9	1427.0	1432.7	1439.8	1455.3	1462.6	1469.6	1472.4	1471.9	1469.6	1466.1
14°	1409.1	1412.7	1419.4	1427.0	1442.5	1451.0	1458.1	1461.3	1460.3	1457.3	1453.3
14.5°	1394.1	1398.1	1405.4	1413.7	1430.0	1439.0	1446.0	1449.3	1448.3	1445.0	1440.0
15°	1379.0	1383.3	1391.1	1399.9	1417.2	1426.5	1434.0	1437.2	1436.2	1432.2	1426.7
15.5°	1363.5	1368.5	1376.5	1386.3	1404.4	1413.7	1421.7	1424.7	1423.7	1419.4	1412.9
16°	1347.9	1353.4	1362.5	1372.3	1390.8	1401.1	1409.1	1412.2	1410.9	1406.1	1399.1
16.5°	1332.9	1338.9	1348.2	1358.5	1377.5	1388.1	1395.8	1399.9	1398.1	1392.8	1385.1
17°	1317.8	1323.8	1333.6	1344.7	1364.0	1374.8	1383.1	1386.6	1384.8	1379.0	1371.0
17.5°	1302.8	1309.0	1319.3	1330.9	1350.2	1361.2	1369.5	1372.8	1371.3	1365.2	1356.5
18°	1287.7	1294.5	1305.0	1316.8	1336.6	1347.9	1356.2	1360.0	1357.7	1351.4	1342.4
18.5°	1273.1	1280.7	1291.0	1303.0	1322.8	1334.6	1343.2	1346.4	1343.9	1337.4	1327.8
19°	1259.6	1267.4	1278.2	1289.7	1309.5	1321.6	1329.9	1333.1	1330.4	1323.6	1313.5
19.5°	1246.8	1254.8	1265.1	1276.9	1296.7	1308.5	1317.3	1320.3	1317.6	1309.8	1299.5
20°	1234.0	1242.3	1252.6	1264.4	1283.7	1295.7	1305.3	1307.8	1304.0	1296.7	1286.2
20.5°	1221.5	1229.5	1240.0	1251.6	1271.1	1283.4	1292.7	1295.5	1291.7	1283.7	1273.1
21°	1208.7	1216.9	1227.0	1238.8	1258.6	1271.1	1279.9	1283.2	1279.2	1271.1	1260.4



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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°	1163.7	1171.5	1181.3	1196.9	1220.5	1232.8	1240.8	1244.5	1241.5	1233.3	1221.2
23°	1145.7	1153.7	1164.0	1182.3	1207.2	1219.0	1226.0	1230.5	1228.7	1220.0	1206.9
23.5°	1126.1	1134.6	1145.9	1165.8	1193.4	1204.1	1209.7	1214.7	1214.9	1206.4	1191.6
24°	1104.3	1113.3	1126.9	1148.4	1179.3	1188.3	1192.4	1198.6	1200.6	1192.4	1175.5
24.5°	1081.2	1090.2	1106.5	1130.1	1164.0	1172.3	1175.0	1181.3	1185.8	1177.3	1158.0
25°	1056.9	1065.6	1086.7	1111.6	1147.7	1155.0	1156.7	1163.5	1170.3	1162.0	1139.9
25.5°	1031.3	1040.5	1065.9	1091.2	1130.6	1136.7	1137.2	1144.7	1153.7	1145.4	1121.1
26°	1004.7	1015.0	1045.1	1071.7	1112.1	1117.3	1118.1	1125.6	1135.9	1128.1	1102.0
26.5°	977.6	989.4	1022.5	1051.1	1091.7	1097.3	1099.3	1106.3	1116.8	1109.3	1081.7
27°	950.2	964.3	999.7	1029.8	1069.9	1076.9	1080.4	1087.0	1096.5	1088.7	1061.4
27.5°	924.1	939.4	975.8	1007.9	1045.8	1056.1	1061.4	1067.4	1075.7	1067.4	1041.3
28°	897.8	915.8	950.7	984.6	1020.5	1034.8	1041.8	1047.8	1052.6	1044.6	1019.7
28.5°	872.2	893.0	925.1	960.0	992.9	1012.2	1022.2	1027.8	1029.3	1021.2	997.9
29°	847.6	870.4	899.3	934.9	964.8	989.4	1002.2	1007.4	1005.4	995.6	975.1
29.5°	823.3	847.6	872.7	908.3	935.9	965.5	980.3	985.6	979.3	969.5	951.0
30°	799.2	824.3	846.3	880.5	906.8	940.4	957.7	963.8	953.2	942.4	925.4
30.5°	775.3	800.2	821.0	851.4	879.2	914.6	933.9	940.2	925.4	914.1	899.8
31°	751.0	775.3	795.2	823.0	852.4	888.0	910.6	917.1	898.3	885.7	873.2
31.5°	726.7	749.7	770.3	793.1	826.5	861.1	886.2	892.0	871.2	857.1	846.6
32°	702.1	723.9	744.7	764.0	802.2	833.8	862.4	866.9	845.3	829.5	818.5
32.5°	677.5	696.5	719.4	735.7	777.3	806.9	838.3	840.6	819.2	802.7	791.6
33°	651.9	669.7	693.5	706.6	753.8	780.3	813.7	814.7	794.4	776.1	763.0
33.5°	625.8	642.8	667.4	678.0	728.7	754.0	788.1	788.6	768.8	750.0	734.2
34°	599.9	617.3	640.6	650.1	703.6	728.9	762.8	762.5	745.0	724.1	704.8
34.5°	574.8	590.7	614.0	623.0	677.7	704.3	736.4	735.4	719.9	699.1	677.0
35°	549.5	565.8	587.4	596.2	652.9	680.7	710.1	709.3	695.3	674.2	648.1
35.5°	525.7	542.0	560.0	570.1	625.3	656.1	682.2	683.0	670.2	649.1	621.0
36°	502.1	517.9	532.7	544.7	598.7	631.3	654.9	656.6	646.1	623.8	594.7
36.5°	479.0	494.3	506.1	519.9	572.6	607.0	627.0	630.1	620.3	597.9	569.1
37°	456.2	470.2	478.2	495.3	547.0	582.6	599.7	603.0	594.7	571.6	543.2
37.5°	433.6	446.9	451.4	471.2	521.4	557.3	572.1	577.4	568.8	545.5	519.1
38°	411.0	422.8	425.1	446.9	497.3	531.7	546.5	552.0	543.5	519.4	494.6
38.5°	388.4	399.0	400.5	423.3	473.2	505.8	520.1	527.2	518.9	493.8	470.2
39°	366.3	375.6	376.9	400.2	450.4	480.8	494.3	502.3	494.8	470.5	446.1
39.5°	343.5	351.3	353.3	378.6	426.3	455.7	468.7	477.7	470.7	445.1	422.5
40°	321.7	327.9	330.2	356.1	403.2	431.6	443.1	452.7	447.4	421.8	399.0
40.5°	299.8	305.1	309.1	335.0	380.6	407.7	417.8	428.3	423.8	399.5	375.6
41°	278.5	283.0	288.1	314.1	358.6	384.9	393.4	403.7	402.0	378.4	352.0
41.5°	257.4	261.7	267.7	293.6	335.7	361.8	369.9	378.9	379.4	356.1	329.7
42°	238.1	240.6	247.9	272.7	313.4	339.7	346.5	355.0	356.1	335.5	307.4
42.5°	218.8	221.1	229.3	253.9	292.3	317.7	323.7	332.2	333.7	314.6	286.3
43°	200.7	202.0	210.8	235.1	272.0	295.6	301.4	309.9	312.1	295.3	266.0
43.5°	182.7	183.7	193.7	216.5	252.4	273.2	280.5	288.1	290.3	274.3	246.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	134.2	133.0	145.8	165.1	199.5	212.0	222.1	228.3	229.8	219.8	193.7
45.5°	119.7	118.2	132.0	149.5	181.9	192.0	203.2	209.5	211.0	202.0	176.1
46°	106.1	104.6	118.7	134.7	164.4	171.9	184.4	190.7	192.2	184.2	160.3
46.5°	93.1	91.8	106.4	121.2	148.0	154.3	165.9	172.1	173.4	166.6	145.5
47°	83.8	82.8	94.3	108.1	132.2	137.8	149.0	154.6	155.8	150.3	131.2
47.5°	74.8	73.5	85.1	95.6	117.2	122.2	133.0	138.3	140.0	135.2	117.9
48°	65.7	64.2	75.8	83.8	102.9	107.9	118.4	122.7	124.7	120.9	105.6
48.5°	56.7	55.2	66.5	73.5	89.6	94.3	104.4	108.4	110.4	106.4	94.1
49°	47.7	45.9	57.2	64.7	77.0	82.3	91.1	94.6	96.6	93.3	83.1
49.5°	41.4	39.9	47.9	56.7	65.5	71.0	78.8	82.0	84.1	81.3	73.0
50°	35.4	34.1	40.6	48.7	55.5	60.7	67.2	70.8	72.3	70.0	63.7
50.5°	30.1	29.1	34.1	40.6	46.4	51.4	57.0	60.5	61.7	60.0	55.0
51°	25.3	24.3	28.1	32.6	38.4	42.9	47.4	50.9	51.9	50.4	47.2
51.5°	20.8	20.1	22.8	26.6	33.4	35.4	39.1	42.2	43.2	42.4	39.9
52°	17.1	16.3	18.1	21.1	28.4	30.1	33.4	34.6	35.4	35.1	33.4
52.5°	13.5	12.8	14.1	16.1	23.3	25.1	27.6	29.6	30.1	30.1	28.6
53°	10.3	9.8	10.5	12.0	18.3	19.8	22.1	24.3	25.1	24.8	23.8
53.5°	9.0	8.5	9.3	8.8	13.3	14.6	16.3	19.3	19.8	19.8	19.1
54°	7.8	7.0	7.8	7.3	8.3	9.5	10.8	14.1	14.6	14.8	14.1
54.5°	6.5	5.5	6.5	6.3	6.0	6.8	7.5	9.0	9.5	9.5	9.5
55°	5.0	4.3	5.0	5.0	5.0	5.3	5.8	6.5	6.8	7.0	7.0
55.5°	3.8	3.8	3.8	4.0	4.3	4.5	4.8	5.0	5.3	5.5	5.3
56°	3.5	3.3	3.3	3.5	3.8	4.0	4.0	4.3	4.5	4.5	4.5
56.5°	3.0	3.0	3.0	3.0	3.3	3.5	3.8	3.8	4.0	4.0	4.0
57°	2.8	2.8	2.8	2.8	3.0	3.0	3.3	3.5	3.5	3.5	3.5
57.5°	2.5	2.5	2.5	2.5	2.8	2.8	3.0	3.0	3.3	3.3	3.3
58°	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.8	2.8	2.8	2.8
58.5°	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.5	2.5	2.5	2.5
59°	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.3	2.3
59.5°	1.8	1.8	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	2.0	2.0
60.5°	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
61°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8
61.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5
63°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
63.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
64°	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3
64.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
66°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P775992

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
69.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.8
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
71.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
75.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.5
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
81.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
82°	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.3
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: P775992

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775992

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1618.4	1618.4	1618.4	1618.4	1618.4	1618.4
0.5°	1617.9	1618.4	1618.7	1618.9	1618.9	1617.9
1°	1617.9	1618.2	1618.2	1618.4	1618.2	1616.9
1.5°	1617.4	1617.4	1617.4	1617.4	1616.9	1615.4
2°	1616.4	1616.2	1616.2	1615.9	1614.9	1613.4
2.5°	1614.9	1614.4	1614.1	1613.9	1612.6	1610.9
3°	1613.1	1612.1	1611.9	1611.4	1610.1	1607.9
3.5°	1610.6	1609.4	1609.1	1608.4	1606.6	1604.4
4°	1607.6	1606.1	1605.9	1604.9	1602.9	1600.3
4.5°	1604.4	1602.4	1601.8	1600.8	1598.8	1595.8
5°	1600.8	1598.3	1597.3	1596.1	1594.1	1591.1
5.5°	1596.6	1593.6	1592.3	1591.1	1588.3	1585.5
6°	1591.8	1588.3	1587.0	1585.3	1582.8	1579.8
6.5°	1586.8	1582.8	1581.3	1579.3	1576.5	1573.5
7°	1581.3	1576.8	1574.8	1572.5	1569.2	1566.7
7.5°	1575.3	1570.2	1567.7	1565.0	1561.7	1559.4
8°	1569.0	1563.2	1560.2	1556.9	1554.2	1551.7
8.5°	1562.0	1555.7	1552.2	1548.4	1545.4	1543.1
9°	1554.4	1547.7	1543.4	1539.1	1536.1	1534.1
9.5°	1546.4	1538.9	1534.1	1529.1	1525.6	1524.1
10°	1537.9	1529.6	1524.1	1518.8	1515.5	1514.0
10.5°	1528.6	1519.8	1513.3	1507.5	1504.5	1503.5
11°	1519.0	1509.3	1502.0	1495.7	1492.4	1491.4
11.5°	1508.8	1497.7	1489.9	1483.2	1479.7	1479.2
12°	1497.5	1485.9	1477.1	1469.9	1466.4	1466.1
12.5°	1485.9	1472.9	1463.6	1456.1	1452.6	1452.6
13°	1473.9	1459.3	1449.8	1442.0	1438.3	1438.5
13.5°	1460.8	1445.5	1435.2	1427.0	1423.9	1423.9
14°	1447.3	1431.2	1420.4	1411.9	1408.1	1409.1
14.5°	1433.5	1416.2	1405.1	1396.9	1392.8	1394.1
15°	1419.4	1401.1	1389.6	1381.3	1377.5	1379.0
15.5°	1404.9	1386.1	1374.0	1365.7	1362.0	1363.5
16°	1390.3	1370.5	1358.5	1349.4	1346.4	1347.9
16.5°	1375.5	1355.4	1342.9	1333.9	1330.9	1332.9
17°	1360.5	1340.1	1326.8	1318.1	1315.1	1317.8
17.5°	1345.4	1324.6	1311.3	1302.8	1299.7	1302.8
18°	1330.6	1309.0	1296.0	1286.9	1284.7	1287.7
18.5°	1315.8	1294.2	1280.4	1271.6	1269.6	1273.1
19°	1301.0	1279.2	1265.6	1257.1	1255.6	1259.6
19.5°	1286.9	1265.4	1252.3	1243.8	1242.0	1246.8
20°	1273.4	1252.1	1238.5	1230.7	1229.0	1234.0
20.5°	1260.4	1239.3	1225.7	1217.7	1216.4	1221.5
21°	1247.3	1226.5	1212.4	1204.4	1203.9	1208.7



TEST NUMBER: P775992

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1207.9	1186.6	1170.8	1160.7	1158.2	1163.7
23°	1192.4	1170.8	1153.7	1141.9	1139.4	1145.7
23.5°	1176.3	1153.5	1135.4	1121.6	1120.1	1126.1
24°	1158.7	1133.9	1114.3	1099.3	1098.3	1104.3
24.5°	1140.2	1112.6	1093.5	1076.2	1075.2	1081.2
25°	1120.3	1089.5	1070.4	1051.8	1051.3	1056.9
25.5°	1100.0	1064.6	1046.6	1028.0	1027.3	1031.3
26°	1078.4	1038.5	1021.0	1004.7	1001.7	1004.7
26.5°	1056.1	1011.2	995.4	981.1	976.8	977.6
27°	1033.3	984.8	968.0	958.0	951.5	950.2
27.5°	1009.2	958.8	939.2	933.4	925.6	924.1
28°	984.6	934.4	911.3	908.8	900.0	897.8
28.5°	960.0	910.6	884.2	883.2	874.4	872.2
29°	934.7	887.5	858.1	856.6	847.8	847.6
29.5°	909.3	865.2	832.8	829.0	821.5	823.3
30°	884.7	842.1	807.7	801.4	794.4	799.2
30.5°	859.6	818.2	783.4	772.8	766.8	775.3
31°	835.3	793.9	759.0	744.0	739.7	751.0
31.5°	811.7	768.1	734.7	716.6	712.1	726.7
32°	787.6	741.7	709.8	689.3	686.0	702.1
32.5°	763.8	715.1	685.5	662.4	660.9	677.5
33°	740.0	688.0	660.4	636.6	636.1	651.9
33.5°	716.1	660.9	635.1	610.2	611.5	625.8
34°	690.8	634.8	609.7	584.6	586.9	599.9
34.5°	665.2	610.0	583.6	559.0	562.1	574.8
35°	638.3	585.4	558.3	533.4	537.2	549.5
35.5°	612.5	562.3	533.9	508.1	512.4	525.7
36°	583.9	540.0	509.6	484.0	487.3	502.1
36.5°	557.0	516.9	486.8	460.9	461.9	479.0
37°	529.4	494.3	463.4	438.1	437.6	456.2
37.5°	503.3	471.5	440.6	415.8	414.0	433.6
38°	477.0	447.6	418.0	393.7	391.2	411.0
38.5°	452.4	423.8	395.7	372.1	369.3	388.4
39°	427.3	400.5	374.4	351.5	348.8	366.3
39.5°	403.0	376.9	352.0	330.5	328.4	343.5
40°	378.6	353.5	330.7	310.9	308.6	321.7
40.5°	355.8	331.0	309.9	291.1	289.1	299.8
41°	332.5	309.6	289.3	272.5	270.7	278.5
41.5°	310.1	288.3	269.5	254.7	252.2	257.4
42°	288.3	268.2	250.2	238.1	234.6	238.1
42.5°	267.0	248.2	231.6	221.3	217.5	218.8
43°	246.4	228.8	213.8	205.8	201.5	200.7
43.5°	228.1	208.8	197.0	190.2	185.4	182.7



TEST NUMBER: P775992

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	173.6	153.3	150.0	147.8	142.8	134.2
45.5°	157.6	136.5	135.7	134.7	129.7	119.7
46°	142.5	120.9	122.4	122.7	117.9	106.1
46.5°	128.2	106.4	109.7	111.2	106.1	93.1
47°	114.9	93.6	97.4	99.9	95.1	83.8
47.5°	102.6	84.3	86.1	89.6	86.1	74.8
48°	90.8	75.0	77.3	81.0	77.3	65.7
48.5°	80.3	66.0	68.2	72.5	68.2	56.7
49°	70.5	57.0	59.5	64.0	59.2	47.7
49.5°	61.5	47.9	50.7	55.5	50.2	41.4
50°	53.2	41.7	43.4	46.9	43.2	35.4
50.5°	45.9	36.1	37.1	39.9	36.1	30.1
51°	39.1	30.9	31.6	33.6	30.4	25.3
51.5°	33.4	26.3	26.3	27.9	25.1	20.8
52°	28.9	22.1	21.6	22.6	20.1	17.1
52.5°	24.6	18.1	17.6	17.8	15.8	13.5
53°	20.1	14.6	13.8	13.5	12.0	10.3
53.5°	15.8	11.3	10.5	10.0	8.8	9.0
54°	11.3	8.5	9.0	8.5	7.5	7.8
54.5°	8.5	7.3	7.8	7.0	6.3	6.5
55°	6.5	6.3	6.5	5.5	5.0	5.0
55.5°	5.0	5.0	5.0	4.0	4.0	3.8
56°	4.5	4.0	3.8	3.8	3.5	3.5
56.5°	3.8	3.5	3.3	3.3	3.3	3.0
57°	3.5	3.0	3.0	3.0	2.8	2.8
57.5°	3.0	2.8	2.8	2.8	2.5	2.5
58°	2.8	2.5	2.5	2.5	2.3	2.3
58.5°	2.5	2.3	2.3	2.3	2.3	2.0
59°	2.3	2.0	2.0	2.0	2.0	2.0
59.5°	2.0	2.0	2.0	2.0	1.8	1.8
60°	2.0	1.8	1.8	1.8	1.8	1.8
60.5°	1.8	1.8	1.8	1.8	1.8	1.5
61°	1.8	1.5	1.5	1.5	1.5	1.5
61.5°	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.3	1.3
62.5°	1.5	1.3	1.3	1.3	1.3	1.3
63°	1.3	1.3	1.3	1.3	1.3	1.3
63.5°	1.3	1.3	1.3	1.3	1.3	1.3
64°	1.3	1.3	1.3	1.3	1.0	1.0
64.5°	1.3	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0
66°	1.0	1.0	1.0	1.0	1.0	0.8



TEST NUMBER: P775992

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.8	0.8	0.8	0.8	0.8
68°	0.8	0.8	0.8	0.8	0.8	0.8
68.5°	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8	0.8
69.5°	0.8	0.8	0.8	0.8	0.8	0.5
70°	0.8	0.8	0.8	0.8	0.5	0.5
70.5°	0.8	0.8	0.8	0.5	0.5	0.5
71°	0.8	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.3
74.5°	0.5	0.5	0.5	0.5	0.3	0.3
75°	0.5	0.5	0.5	0.5	0.3	0.3
75.5°	0.5	0.5	0.5	0.3	0.3	0.3
76°	0.5	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.0
80.5°	0.3	0.3	0.3	0.3	0.0	0.0
81°	0.3	0.3	0.3	0.3	0.0	0.0
81.5°	0.3	0.3	0.3	0.3	0.0	0.0
82°	0.3	0.3	0.3	0.0	0.0	0.0
82.5°	0.3	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: P775992

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-3500K

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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	1195.4	1203.4	1212.9	1225.7	1246.1	1259.1	1268.4	1270.9	1266.6	1258.1	1247.6
22°	1180.3	1188.1	1197.6	1212.2	1233.5	1246.1	1255.1	1258.3	1254.3	1245.5	1235.0



44°	166.1	165.9	176.6	198.2	234.9	251.9	259.7	266.7	269.0	255.4	228.8
44.5°	149.0	149.0	160.8	181.7	217.3	231.8	240.9	247.2	248.7	237.6	211.3



66.5°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0



89°	0.0	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	0.0

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21.5°	1234.5	1213.9	1200.1	1192.1	1190.1	1195.4
22°	1222.0	1200.6	1185.8	1177.3	1175.0	1180.3



44°	210.0	189.7	180.7	175.4	170.4	166.1
44.5°	191.7	171.1	165.1	161.1	156.3	149.0

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66.5°	1.0	1.0	1.0	1.0	0.8	0.8
67°	1.0	1.0	0.8	0.8	0.8	0.8

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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)