

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: P775920

Luminaire Tested: HCDJBS1525CSD-HCD42TRMW-2000lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775920
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-2700K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

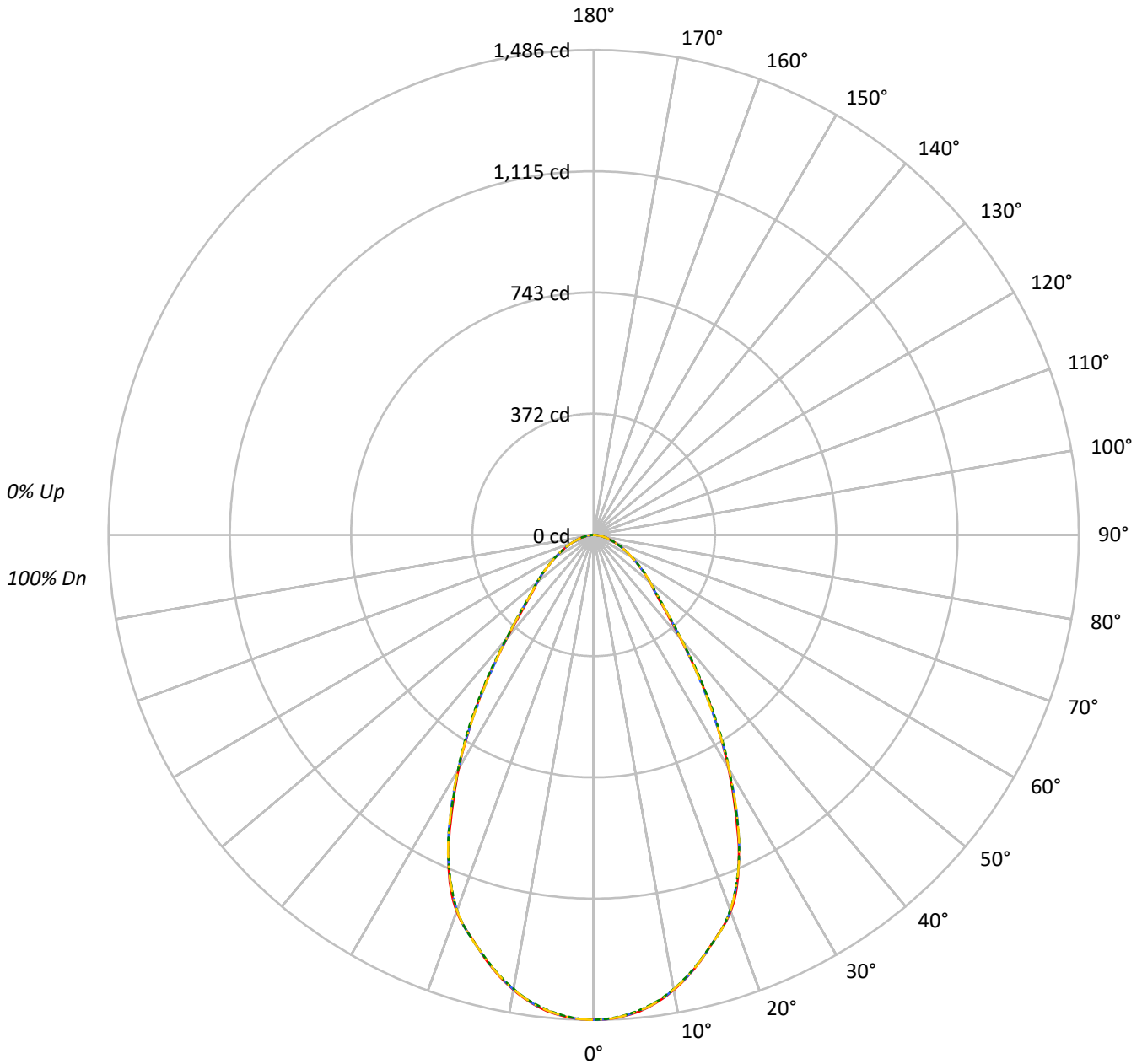
Lumens per Lamp: N/A
Luminaire Lumens: 1919.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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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	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°	187025	187025	187025	187025
5°	185706	185302	185706	185302
10°	180914	180505	180914	180505
15°	172907	172698	172907	172698
20°	164408	163819	164408	163819
25°	145928	146400	145928	146400
30°	120062	120687	120062	120687
35°	93133	94147	93133	94147
40°	67653	68836	67653	68836
45°	51222	52504	51222	52504
50°	44111	44463	44111	44463
55°	38331	38770	38331	38770
60°	33526	33803	33526	33803
65°	29451	29689	29451	29689
70°	26015	26162	26015	26162
75°	22854	22854	22854	22854
80°	19785	19640	19785	19640
85°	15739	15739	15739	15739

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 52504 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	7.2
10°-20°	372.8	19.4
20°-30°	477.4	24.9
30°-40°	378.3	19.7
40°-50°	231.6	12.1
50°-60°	158.3	8.3
60°-70°	99.1	5.2
70°-80°	50.2	2.6
80°-90°	12.7	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°	988.7	51.5
0°-40°	1367.0	71.2
0°-60°	1757.0	91.6
0°-90°	1919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1486	1486	1486	1486	1486	
5°	1470	1467	1470	1467	1470	139
15°	1327	1326	1327	1326	1327	373
25°	1051	1054	1051	1054	1051	476
35°	606	613	606	613	606	378
45°	288	295	288	295	288	229
55°	175	177	175	177	175	157
65°	99	100	99	100	99	99
75°	47	47	47	47	47	50
85°	11	11	11	11	11	13
90°	0	1	0	1	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°	1486.1	1486.1	1486.1	1486.1	1486.1	1486.1	1486.1	1486.1	1486.1	1486.1	1486.1
0.5°	1486.3	1486.1	1485.7	1485.5	1485.0	1485.5	1485.7	1486.1	1486.3	1486.1	1485.7
1°	1485.7	1485.5	1485.3	1485.2	1484.4	1485.2	1485.3	1485.5	1485.7	1485.5	1485.3
1.5°	1485.0	1484.6	1484.6	1484.2	1483.6	1484.2	1484.6	1484.6	1485.0	1484.6	1484.6
2°	1483.8	1483.6	1483.2	1483.0	1482.2	1483.0	1483.2	1483.6	1483.8	1483.6	1483.2
2.5°	1482.4	1482.0	1481.6	1481.4	1480.4	1481.4	1481.6	1482.0	1482.4	1482.0	1481.6
3°	1480.4	1480.0	1479.6	1479.2	1478.2	1479.2	1479.6	1480.0	1480.4	1480.0	1479.6
3.5°	1478.2	1477.8	1477.2	1476.8	1476.2	1476.8	1477.2	1477.8	1478.2	1477.8	1477.2
4°	1475.6	1475.4	1474.6	1474.2	1473.2	1474.2	1474.6	1475.4	1475.6	1475.4	1474.6
4.5°	1472.8	1472.4	1471.6	1471.2	1470.0	1471.2	1471.6	1472.4	1472.8	1472.4	1471.6
5°	1470.0	1469.4	1468.6	1468.2	1466.8	1468.2	1468.6	1469.4	1470.0	1469.4	1468.6
5.5°	1467.0	1465.6	1464.7	1464.3	1463.1	1464.3	1464.7	1465.6	1467.0	1465.6	1464.7
6°	1462.5	1461.7	1460.7	1460.1	1458.5	1460.1	1460.7	1461.7	1462.5	1461.7	1460.7
6.5°	1457.9	1457.3	1456.1	1455.5	1453.9	1455.5	1456.1	1457.3	1457.9	1457.3	1456.1
7°	1453.1	1452.3	1451.7	1450.7	1449.3	1450.7	1451.7	1452.3	1453.1	1452.3	1451.7
7.5°	1447.7	1446.9	1446.1	1445.7	1444.3	1445.7	1446.1	1446.9	1447.7	1446.9	1446.1
8°	1442.0	1441.4	1440.6	1440.0	1439.2	1440.0	1440.6	1441.4	1442.0	1441.4	1440.6
8.5°	1436.0	1435.2	1434.4	1433.8	1433.0	1433.8	1434.4	1435.2	1436.0	1435.2	1434.4
9°	1429.6	1429.0	1428.0	1427.4	1426.6	1427.4	1428.0	1429.0	1429.6	1429.0	1428.0
9.5°	1422.7	1422.3	1421.3	1420.7	1419.9	1420.7	1421.3	1422.3	1422.7	1422.3	1421.3
10°	1415.7	1415.1	1414.3	1413.5	1412.5	1413.5	1414.3	1415.1	1415.7	1415.1	1414.3
10.5°	1407.9	1407.5	1406.5	1405.9	1405.1	1405.9	1406.5	1407.5	1407.9	1407.5	1406.5
11°	1400.2	1399.8	1399.0	1398.2	1397.2	1398.2	1399.0	1399.8	1400.2	1399.8	1399.0
11.5°	1392.0	1391.6	1390.8	1390.0	1389.2	1390.0	1390.8	1391.6	1392.0	1391.6	1390.8
12°	1383.6	1383.2	1382.7	1381.7	1380.9	1381.7	1382.7	1383.2	1383.6	1383.2	1382.7
12.5°	1374.9	1374.5	1373.9	1372.9	1371.9	1372.9	1373.9	1374.5	1374.9	1374.5	1373.9
13°	1365.9	1365.5	1364.9	1364.1	1363.1	1364.1	1364.9	1365.5	1365.9	1365.5	1364.9
13.5°	1356.6	1356.2	1355.8	1355.0	1354.2	1355.0	1355.8	1356.2	1356.6	1356.2	1355.8
14°	1347.0	1346.8	1346.4	1345.6	1344.8	1345.6	1346.4	1346.8	1347.0	1346.8	1346.4
14.5°	1337.1	1336.9	1336.7	1335.9	1335.1	1335.9	1336.7	1336.9	1337.1	1336.9	1336.7
15°	1327.1	1327.1	1326.7	1326.3	1325.5	1326.3	1326.7	1327.1	1327.1	1327.1	1326.7
15.5°	1316.8	1316.8	1317.2	1316.8	1316.4	1316.8	1317.2	1316.8	1316.8	1316.8	1317.2
16°	1306.8	1307.0	1307.6	1307.4	1307.0	1307.4	1307.6	1307.0	1306.8	1307.0	1307.6
16.5°	1296.9	1297.3	1298.1	1298.1	1297.9	1298.1	1298.1	1297.3	1296.9	1297.3	1298.1
17°	1287.5	1287.9	1288.7	1288.5	1288.7	1288.5	1288.7	1287.9	1287.5	1287.9	1288.7
17.5°	1278.4	1278.8	1279.4	1279.2	1279.0	1279.2	1279.4	1278.8	1278.4	1278.8	1279.4
18°	1269.4	1269.6	1270.0	1269.6	1269.2	1269.6	1270.0	1269.6	1269.4	1269.6	1270.0
18.5°	1259.9	1259.9	1259.9	1259.5	1258.9	1259.5	1259.9	1259.9	1259.9	1259.9	1259.9
19°	1250.1	1249.5	1249.1	1248.5	1247.9	1248.5	1249.1	1249.5	1250.1	1249.5	1249.1
19.5°	1239.4	1238.6	1237.4	1237.0	1236.4	1237.0	1237.4	1238.6	1239.4	1238.6	1237.4
20°	1227.6	1226.6	1224.4	1224.6	1223.2	1224.6	1224.4	1226.6	1227.6	1226.6	1224.4
20.5°	1214.7	1213.1	1210.5	1211.3	1209.7	1211.3	1210.5	1213.1	1214.7	1213.1	1210.5
21°	1201.1	1198.7	1195.8	1196.8	1194.8	1196.8	1195.8	1198.7	1201.1	1198.7	1195.8



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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°	1151.6	1149.2	1147.2	1147.0	1146.0	1147.0	1147.2	1149.2	1151.6	1149.2	1147.2
23°	1132.7	1130.7	1130.3	1128.9	1128.5	1128.9	1130.3	1130.7	1132.7	1130.7	1130.3
23.5°	1113.4	1111.6	1112.6	1110.2	1111.2	1110.2	1112.6	1111.6	1113.4	1111.6	1112.6
24°	1093.3	1091.9	1094.3	1091.1	1092.9	1091.1	1094.3	1091.9	1093.3	1091.9	1094.3
24.5°	1072.6	1072.0	1075.0	1071.8	1074.2	1071.8	1075.0	1072.0	1072.6	1072.0	1075.0
25°	1050.9	1051.3	1054.9	1052.5	1054.3	1052.5	1054.9	1051.3	1050.9	1051.3	1054.9
25.5°	1028.4	1031.0	1034.2	1033.2	1033.6	1033.2	1034.2	1031.0	1028.4	1031.0	1034.2
26°	1005.3	1009.9	1012.9	1013.1	1011.5	1013.1	1012.9	1009.9	1005.3	1009.9	1012.9
26.5°	981.6	988.4	990.8	992.2	988.6	992.2	990.8	988.4	981.6	988.4	990.8
27°	958.5	966.1	968.5	970.7	965.3	970.7	968.5	966.1	958.5	966.1	968.5
27.5°	935.8	943.0	945.8	948.6	941.6	948.6	945.8	943.0	935.8	943.0	945.8
28°	913.1	919.9	922.7	925.5	917.9	925.5	922.7	919.9	913.1	919.9	922.7
28.5°	891.1	896.4	899.6	902.0	895.0	902.0	899.6	896.4	891.1	896.4	899.6
29°	869.2	872.7	876.5	878.1	873.3	878.1	876.5	872.7	869.2	872.7	876.5
29.5°	847.7	849.5	853.6	854.2	852.0	854.2	853.6	849.5	847.7	849.5	853.6
30°	826.2	825.6	830.1	830.3	830.5	830.3	830.1	825.6	826.2	825.6	830.1
30.5°	803.9	802.5	806.9	807.3	810.2	807.3	806.9	802.5	803.9	802.5	806.9
31°	781.8	778.8	783.4	784.2	788.7	784.2	783.4	778.8	781.8	778.8	783.4
31.5°	759.1	756.1	759.9	761.3	767.1	761.3	759.9	756.1	759.1	756.1	759.9
32°	736.0	733.2	736.6	738.8	744.8	738.8	736.6	733.2	736.0	733.2	736.6
32.5°	713.7	711.3	713.7	716.5	722.5	716.5	713.7	711.3	713.7	711.3	713.7
33°	691.2	689.4	690.2	694.2	699.8	694.2	690.2	689.4	691.2	689.4	690.2
33.5°	671.1	667.5	666.9	671.9	676.9	671.9	666.9	667.5	671.1	667.5	666.9
34°	649.4	645.6	643.9	650.0	655.2	650.0	643.9	645.6	649.4	645.6	643.9
34.5°	627.9	624.0	621.4	627.9	633.7	627.9	621.4	624.0	627.9	624.0	621.4
35°	606.2	602.9	600.1	606.6	612.8	606.6	600.1	602.9	606.2	602.9	600.1
35.5°	585.1	582.0	579.0	585.5	592.3	585.5	579.0	582.0	585.1	582.0	579.0
36°	564.4	561.1	558.5	565.2	572.2	565.2	558.5	561.1	564.4	561.1	558.5
36.5°	543.9	541.0	538.6	545.1	551.7	545.1	538.6	541.0	543.9	541.0	538.6
37°	523.2	521.1	519.1	525.6	531.4	525.6	519.1	521.1	523.2	521.1	519.1
37.5°	503.1	501.8	500.4	506.9	511.1	506.9	500.4	501.8	503.1	501.8	500.4
38°	483.2	483.0	482.4	488.6	491.0	488.6	482.4	483.0	483.2	483.0	482.4
38.5°	464.5	464.9	465.3	470.7	471.7	470.7	465.3	464.9	464.5	464.9	465.3
39°	446.4	447.4	448.2	453.4	453.2	453.4	448.2	447.4	446.4	447.4	448.2
39.5°	428.7	430.5	431.9	436.3	435.7	436.3	431.9	430.5	428.7	430.5	431.9
40°	411.8	413.8	416.2	419.8	419.0	419.8	416.2	413.8	411.8	413.8	416.2
40.5°	395.9	397.9	401.0	403.6	403.4	403.6	401.0	397.9	395.9	397.9	401.0
41°	380.5	382.5	386.7	388.5	389.1	388.5	386.7	382.5	380.5	382.5	386.7
41.5°	366.0	368.2	373.0	374.0	375.8	374.0	373.0	368.2	366.0	368.2	373.0
42°	352.5	354.7	359.8	360.4	362.8	360.4	359.8	354.7	352.5	354.7	359.8
42.5°	339.7	341.9	347.5	347.7	350.3	347.7	347.5	341.9	339.7	341.9	347.5
43°	327.6	330.0	335.4	335.8	338.1	335.8	335.4	330.0	327.6	330.0	335.4
43.5°	316.5	318.8	324.0	324.2	326.4	324.2	324.0	318.8	316.5	318.8	324.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	287.8	289.8	293.0	294.0	295.0	294.0	293.0	289.8	287.8	289.8	293.0
45.5°	279.4	281.0	284.0	285.0	285.8	285.0	284.0	281.0	279.4	281.0	284.0
46°	271.5	272.9	275.5	276.8	277.2	276.8	275.5	272.9	271.5	272.9	275.5
46.5°	264.1	265.3	267.3	268.9	269.3	268.9	267.3	265.3	264.1	265.3	267.3
47°	257.1	257.9	259.9	261.5	262.1	261.5	259.9	257.9	257.1	257.9	259.9
47.5°	250.6	251.2	253.0	254.8	255.6	254.8	253.0	251.2	250.6	251.2	253.0
48°	244.4	245.2	247.0	248.6	249.4	248.6	247.0	245.2	244.4	245.2	247.0
48.5°	239.4	239.8	241.2	242.8	243.4	242.8	241.2	239.8	239.4	239.8	241.2
49°	234.7	234.9	236.0	237.2	237.8	237.2	236.0	234.9	234.7	234.9	236.0
49.5°	230.1	230.3	231.1	232.1	232.3	232.1	231.1	230.3	230.1	230.3	231.1
50°	225.3	225.5	226.1	226.9	227.1	226.9	226.1	225.5	225.3	225.5	226.1
50.5°	220.5	220.7	221.1	221.9	221.9	221.9	221.1	220.7	220.5	220.7	221.1
51°	215.1	215.5	216.1	216.9	216.9	216.9	216.1	215.5	215.1	215.5	216.1
51.5°	210.0	210.2	211.0	212.0	212.2	212.0	211.0	210.2	210.0	210.2	211.0
52°	204.6	205.0	205.8	206.8	207.0	206.8	205.8	205.0	204.6	205.0	205.8
52.5°	199.2	199.6	200.6	201.4	201.8	201.4	200.6	199.6	199.2	199.6	200.6
53°	194.3	194.6	195.4	196.2	196.6	196.2	195.4	194.6	194.3	194.6	195.4
53.5°	189.1	189.5	190.3	191.3	191.7	191.3	190.3	189.5	189.1	189.5	190.3
54°	184.3	184.5	185.3	186.1	186.5	186.1	185.3	184.5	184.3	184.5	185.3
54.5°	179.5	179.7	180.5	181.3	181.7	181.3	180.5	179.7	179.5	179.7	180.5
55°	174.7	175.1	175.9	176.5	176.7	176.5	175.9	175.1	174.7	175.1	175.9
55.5°	170.2	170.6	171.4	172.0	172.2	172.0	171.4	170.6	170.2	170.6	171.4
56°	165.8	166.2	166.8	167.4	167.6	167.4	166.8	166.2	165.8	166.2	166.8
56.5°	161.4	161.8	162.4	163.0	163.2	163.0	162.4	161.8	161.4	161.8	162.4
57°	157.0	157.4	158.0	158.6	158.8	158.6	158.0	157.4	157.0	157.4	158.0
57.5°	152.7	153.3	153.8	154.2	154.6	154.2	153.8	153.3	152.7	153.3	153.8
58°	148.9	149.1	149.7	150.3	150.5	150.3	149.7	149.1	148.9	149.1	149.7
58.5°	144.9	145.1	145.7	146.1	146.3	146.1	145.7	145.1	144.9	145.1	145.7
59°	140.9	141.1	141.5	141.9	142.3	141.9	141.5	141.1	140.9	141.1	141.5
59.5°	136.9	137.1	137.5	138.1	138.3	138.1	137.5	137.1	136.9	137.1	137.5
60°	133.2	133.3	133.7	134.1	134.3	134.1	133.7	133.3	133.2	133.3	133.7
60.5°	129.4	129.6	130.0	130.4	130.6	130.4	130.0	129.6	129.4	129.6	130.0
61°	125.8	126.0	126.4	126.8	127.0	126.8	126.4	126.0	125.8	126.0	126.4
61.5°	122.2	122.4	122.8	123.2	123.4	123.2	122.8	122.4	122.2	122.4	122.8
62°	118.8	118.8	119.2	119.6	119.6	119.6	119.2	118.8	118.8	118.8	119.2
62.5°	115.2	115.4	115.6	116.0	116.2	116.0	115.6	115.4	115.2	115.4	115.6
63°	111.9	112.1	112.3	112.7	112.7	112.7	112.3	112.1	111.9	112.1	112.3
63.5°	108.5	108.7	108.9	109.3	109.5	109.3	108.9	108.7	108.5	108.7	108.9
64°	105.3	105.5	105.7	105.9	106.1	105.9	105.7	105.5	105.3	105.5	105.7
64.5°	102.1	102.3	102.5	102.7	102.9	102.7	102.5	102.3	102.1	102.3	102.5
65°	98.9	99.1	99.3	99.5	99.7	99.5	99.3	99.1	98.9	99.1	99.3
65.5°	95.9	95.9	96.1	96.5	96.5	96.5	96.1	95.9	95.9	95.9	96.1
66°	92.7	92.9	93.1	93.3	93.5	93.3	93.1	92.9	92.7	92.9	93.1



TEST NUMBER: P775920

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRMW-2000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	84.0	84.2	84.4	84.6	84.6	84.6	84.4	84.2	84.0	84.2	84.4
68°	81.2	81.4	81.6	81.8	81.8	81.8	81.6	81.4	81.2	81.4	81.6
68.5°	78.4	78.6	78.8	78.8	79.0	78.8	78.8	78.6	78.4	78.6	78.8
69°	75.8	75.8	75.8	76.2	76.2	76.2	75.8	75.8	75.8	75.8	75.8
69.5°	73.0	73.2	73.2	73.4	73.6	73.4	73.2	73.2	73.0	73.2	73.2
70°	70.7	70.9	70.7	70.9	71.1	70.9	70.7	70.9	70.7	70.9	70.7
70.5°	68.1	68.3	68.3	68.3	68.5	68.3	68.3	68.3	68.1	68.3	68.3
71°	65.7	65.7	65.7	65.7	65.9	65.7	65.7	65.7	65.7	65.7	65.7
71.5°	63.1	63.1	63.3	63.3	63.3	63.3	63.3	63.1	63.1	63.1	63.3
72°	60.7	60.7	60.7	60.9	60.9	60.9	60.7	60.7	60.7	60.7	60.7
72.5°	58.3	58.3	58.3	58.5	58.5	58.5	58.3	58.3	58.3	58.3	58.3
73°	55.9	55.9	55.9	56.1	56.1	56.1	55.9	55.9	55.9	55.9	55.9
73.5°	53.5	53.5	53.7	53.7	53.7	53.7	53.7	53.5	53.5	53.5	53.7
74°	51.3	51.3	51.3	51.5	51.5	51.5	51.3	51.3	51.3	51.3	51.3
74.5°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
75°	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
75.5°	44.8	44.8	44.8	44.8	45.0	44.8	44.8	44.8	44.8	44.8	44.8
76°	42.8	42.6	42.6	42.8	42.8	42.8	42.6	42.6	42.8	42.6	42.6
76.5°	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
77°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
77.5°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
78°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
78.5°	32.8	32.8	32.6	32.6	32.8	32.6	32.6	32.8	32.8	32.8	32.6
79°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
79.5°	29.1	29.1	28.9	29.1	29.1	29.1	28.9	29.1	29.1	29.1	28.9
80°	27.3	27.3	27.1	27.1	27.1	27.1	27.1	27.3	27.3	27.3	27.1
80.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
81°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
81.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
82°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
82.5°	18.7	18.7	18.7	18.7	18.5	18.7	18.7	18.7	18.7	18.7	18.7
83°	17.1	17.1	17.1	16.9	16.9	16.9	17.1	17.1	17.1	17.1	17.1
83.5°	15.5	15.5	15.5	15.3	15.3	15.3	15.5	15.5	15.5	15.5	15.5
84°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
84.5°	12.5	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.5	12.3	12.3
85°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
85.5°	9.6	9.4	9.6	9.4	9.6	9.4	9.6	9.4	9.6	9.4	9.6
86°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
86.5°	6.8	6.6	6.6	6.6	6.8	6.6	6.6	6.6	6.8	6.6	6.6
87°	5.4	5.4	5.4	5.2	5.4	5.2	5.4	5.4	5.4	5.4	5.4
87.5°	4.0	4.0	4.0	4.0	4.2	4.0	4.0	4.0	4.0	4.0	4.0
88°	2.6	2.8	2.8	3.0	3.0	3.0	2.8	2.8	2.6	2.8	2.8
88.5°	1.6	1.6	1.8	2.0	2.4	2.0	1.8	1.6	1.6	1.6	1.8



TEST NUMBER: P775920

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P775920

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1486.1	1486.1	1486.1	1486.1	1486.1	1486.1
0.5°	1485.5	1485.0	1485.5	1485.7	1486.1	1486.3
1°	1485.2	1484.4	1485.2	1485.3	1485.5	1485.7
1.5°	1484.2	1483.6	1484.2	1484.6	1484.6	1485.0
2°	1483.0	1482.2	1483.0	1483.2	1483.6	1483.8
2.5°	1481.4	1480.4	1481.4	1481.6	1482.0	1482.4
3°	1479.2	1478.2	1479.2	1479.6	1480.0	1480.4
3.5°	1476.8	1476.2	1476.8	1477.2	1477.8	1478.2
4°	1474.2	1473.2	1474.2	1474.6	1475.4	1475.6
4.5°	1471.2	1470.0	1471.2	1471.6	1472.4	1472.8
5°	1468.2	1466.8	1468.2	1468.6	1469.4	1470.0
5.5°	1464.3	1463.1	1464.3	1464.7	1465.6	1467.0
6°	1460.1	1458.5	1460.1	1460.7	1461.7	1462.5
6.5°	1455.5	1453.9	1455.5	1456.1	1457.3	1457.9
7°	1450.7	1449.3	1450.7	1451.7	1452.3	1453.1
7.5°	1445.7	1444.3	1445.7	1446.1	1446.9	1447.7
8°	1440.0	1439.2	1440.0	1440.6	1441.4	1442.0
8.5°	1433.8	1433.0	1433.8	1434.4	1435.2	1436.0
9°	1427.4	1426.6	1427.4	1428.0	1429.0	1429.6
9.5°	1420.7	1419.9	1420.7	1421.3	1422.3	1422.7
10°	1413.5	1412.5	1413.5	1414.3	1415.1	1415.7
10.5°	1405.9	1405.1	1405.9	1406.5	1407.5	1407.9
11°	1398.2	1397.2	1398.2	1399.0	1399.8	1400.2
11.5°	1390.0	1389.2	1390.0	1390.8	1391.6	1392.0
12°	1381.7	1380.9	1381.7	1382.7	1383.2	1383.6
12.5°	1372.9	1371.9	1372.9	1373.9	1374.5	1374.9
13°	1364.1	1363.1	1364.1	1364.9	1365.5	1365.9
13.5°	1355.0	1354.2	1355.0	1355.8	1356.2	1356.6
14°	1345.6	1344.8	1345.6	1346.4	1346.8	1347.0
14.5°	1335.9	1335.1	1335.9	1336.7	1336.9	1337.1
15°	1326.3	1325.5	1326.3	1326.7	1327.1	1327.1
15.5°	1316.8	1316.4	1316.8	1317.2	1316.8	1316.8
16°	1307.4	1307.0	1307.4	1307.6	1307.0	1306.8
16.5°	1298.1	1297.9	1298.1	1298.1	1297.3	1296.9
17°	1288.5	1288.7	1288.5	1288.7	1287.9	1287.5
17.5°	1279.2	1279.0	1279.2	1279.4	1278.8	1278.4
18°	1269.6	1269.2	1269.6	1270.0	1269.6	1269.4
18.5°	1259.5	1258.9	1259.5	1259.9	1259.9	1259.9
19°	1248.5	1247.9	1248.5	1249.1	1249.5	1250.1
19.5°	1237.0	1236.4	1237.0	1237.4	1238.6	1239.4
20°	1224.6	1223.2	1224.6	1224.4	1226.6	1227.6
20.5°	1211.3	1209.7	1211.3	1210.5	1213.1	1214.7
21°	1196.8	1194.8	1196.8	1195.8	1198.7	1201.1



TEST NUMBER: P775920

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1147.0	1146.0	1147.0	1147.2	1149.2	1151.6
23°	1128.9	1128.5	1128.9	1130.3	1130.7	1132.7
23.5°	1110.2	1111.2	1110.2	1112.6	1111.6	1113.4
24°	1091.1	1092.9	1091.1	1094.3	1091.9	1093.3
24.5°	1071.8	1074.2	1071.8	1075.0	1072.0	1072.6
25°	1052.5	1054.3	1052.5	1054.9	1051.3	1050.9
25.5°	1033.2	1033.6	1033.2	1034.2	1031.0	1028.4
26°	1013.1	1011.5	1013.1	1012.9	1009.9	1005.3
26.5°	992.2	988.6	992.2	990.8	988.4	981.6
27°	970.7	965.3	970.7	968.5	966.1	958.5
27.5°	948.6	941.6	948.6	945.8	943.0	935.8
28°	925.5	917.9	925.5	922.7	919.9	913.1
28.5°	902.0	895.0	902.0	899.6	896.4	891.1
29°	878.1	873.3	878.1	876.5	872.7	869.2
29.5°	854.2	852.0	854.2	853.6	849.5	847.7
30°	830.3	830.5	830.3	830.1	825.6	826.2
30.5°	807.3	810.2	807.3	806.9	802.5	803.9
31°	784.2	788.7	784.2	783.4	778.8	781.8
31.5°	761.3	767.1	761.3	759.9	756.1	759.1
32°	738.8	744.8	738.8	736.6	733.2	736.0
32.5°	716.5	722.5	716.5	713.7	711.3	713.7
33°	694.2	699.8	694.2	690.2	689.4	691.2
33.5°	671.9	676.9	671.9	666.9	667.5	671.1
34°	650.0	655.2	650.0	643.9	645.6	649.4
34.5°	627.9	633.7	627.9	621.4	624.0	627.9
35°	606.6	612.8	606.6	600.1	602.9	606.2
35.5°	585.5	592.3	585.5	579.0	582.0	585.1
36°	565.2	572.2	565.2	558.5	561.1	564.4
36.5°	545.1	551.7	545.1	538.6	541.0	543.9
37°	525.6	531.4	525.6	519.1	521.1	523.2
37.5°	506.9	511.1	506.9	500.4	501.8	503.1
38°	488.6	491.0	488.6	482.4	483.0	483.2
38.5°	470.7	471.7	470.7	465.3	464.9	464.5
39°	453.4	453.2	453.4	448.2	447.4	446.4
39.5°	436.3	435.7	436.3	431.9	430.5	428.7
40°	419.8	419.0	419.8	416.2	413.8	411.8
40.5°	403.6	403.4	403.6	401.0	397.9	395.9
41°	388.5	389.1	388.5	386.7	382.5	380.5
41.5°	374.0	375.8	374.0	373.0	368.2	366.0
42°	360.4	362.8	360.4	359.8	354.7	352.5
42.5°	347.7	350.3	347.7	347.5	341.9	339.7
43°	335.8	338.1	335.8	335.4	330.0	327.6
43.5°	324.2	326.4	324.2	324.0	318.8	316.5

TEST NUMBER: P775920

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	294.0	295.0	294.0	293.0	289.8	287.8
45.5°	285.0	285.8	285.0	284.0	281.0	279.4
46°	276.8	277.2	276.8	275.5	272.9	271.5
46.5°	268.9	269.3	268.9	267.3	265.3	264.1
47°	261.5	262.1	261.5	259.9	257.9	257.1
47.5°	254.8	255.6	254.8	253.0	251.2	250.6
48°	248.6	249.4	248.6	247.0	245.2	244.4
48.5°	242.8	243.4	242.8	241.2	239.8	239.4
49°	237.2	237.8	237.2	236.0	234.9	234.7
49.5°	232.1	232.3	232.1	231.1	230.3	230.1
50°	226.9	227.1	226.9	226.1	225.5	225.3
50.5°	221.9	221.9	221.9	221.1	220.7	220.5
51°	216.9	216.9	216.9	216.1	215.5	215.1
51.5°	212.0	212.2	212.0	211.0	210.2	210.0
52°	206.8	207.0	206.8	205.8	205.0	204.6
52.5°	201.4	201.8	201.4	200.6	199.6	199.2
53°	196.2	196.6	196.2	195.4	194.6	194.3
53.5°	191.3	191.7	191.3	190.3	189.5	189.1
54°	186.1	186.5	186.1	185.3	184.5	184.3
54.5°	181.3	181.7	181.3	180.5	179.7	179.5
55°	176.5	176.7	176.5	175.9	175.1	174.7
55.5°	172.0	172.2	172.0	171.4	170.6	170.2
56°	167.4	167.6	167.4	166.8	166.2	165.8
56.5°	163.0	163.2	163.0	162.4	161.8	161.4
57°	158.6	158.8	158.6	158.0	157.4	157.0
57.5°	154.2	154.6	154.2	153.8	153.3	152.7
58°	150.3	150.5	150.3	149.7	149.1	148.9
58.5°	146.1	146.3	146.1	145.7	145.1	144.9
59°	141.9	142.3	141.9	141.5	141.1	140.9
59.5°	138.1	138.3	138.1	137.5	137.1	136.9
60°	134.1	134.3	134.1	133.7	133.3	133.2
60.5°	130.4	130.6	130.4	130.0	129.6	129.4
61°	126.8	127.0	126.8	126.4	126.0	125.8
61.5°	123.2	123.4	123.2	122.8	122.4	122.2
62°	119.6	119.6	119.6	119.2	118.8	118.8
62.5°	116.0	116.2	116.0	115.6	115.4	115.2
63°	112.7	112.7	112.7	112.3	112.1	111.9
63.5°	109.3	109.5	109.3	108.9	108.7	108.5
64°	105.9	106.1	105.9	105.7	105.5	105.3
64.5°	102.7	102.9	102.7	102.5	102.3	102.1
65°	99.5	99.7	99.5	99.3	99.1	98.9
65.5°	96.5	96.5	96.5	96.1	95.9	95.9
66°	93.3	93.5	93.3	93.1	92.9	92.7



TEST NUMBER: P775920

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	84.6	84.6	84.6	84.4	84.2	84.0
68°	81.8	81.8	81.8	81.6	81.4	81.2
68.5°	78.8	79.0	78.8	78.8	78.6	78.4
69°	76.2	76.2	76.2	75.8	75.8	75.8
69.5°	73.4	73.6	73.4	73.2	73.2	73.0
70°	70.9	71.1	70.9	70.7	70.9	70.7
70.5°	68.3	68.5	68.3	68.3	68.3	68.1
71°	65.7	65.9	65.7	65.7	65.7	65.7
71.5°	63.3	63.3	63.3	63.3	63.1	63.1
72°	60.9	60.9	60.9	60.7	60.7	60.7
72.5°	58.5	58.5	58.5	58.3	58.3	58.3
73°	56.1	56.1	56.1	55.9	55.9	55.9
73.5°	53.7	53.7	53.7	53.7	53.5	53.5
74°	51.5	51.5	51.5	51.3	51.3	51.3
74.5°	49.2	49.2	49.2	49.2	49.2	49.2
75°	47.0	47.0	47.0	47.0	47.0	47.0
75.5°	44.8	45.0	44.8	44.8	44.8	44.8
76°	42.8	42.8	42.8	42.6	42.6	42.8
76.5°	40.6	40.6	40.6	40.6	40.6	40.6
77°	38.6	38.6	38.6	38.6	38.6	38.6
77.5°	36.6	36.6	36.6	36.6	36.6	36.6
78°	34.6	34.6	34.6	34.6	34.6	34.6
78.5°	32.6	32.8	32.6	32.6	32.8	32.8
79°	30.8	30.8	30.8	30.8	30.8	30.8
79.5°	29.1	29.1	29.1	28.9	29.1	29.1
80°	27.1	27.1	27.1	27.1	27.3	27.3
80.5°	25.5	25.5	25.5	25.5	25.5	25.5
81°	23.7	23.7	23.7	23.7	23.7	23.7
81.5°	21.9	21.9	21.9	21.9	21.9	21.9
82°	20.3	20.3	20.3	20.3	20.3	20.3
82.5°	18.7	18.5	18.7	18.7	18.7	18.7
83°	16.9	16.9	16.9	17.1	17.1	17.1
83.5°	15.3	15.3	15.3	15.5	15.5	15.5
84°	13.9	13.9	13.9	13.9	13.9	13.9
84.5°	12.3	12.3	12.3	12.3	12.3	12.5
85°	10.9	10.9	10.9	10.9	10.9	10.9
85.5°	9.4	9.6	9.4	9.6	9.4	9.6
86°	8.0	8.0	8.0	8.0	8.0	8.0
86.5°	6.6	6.8	6.6	6.6	6.6	6.8
87°	5.2	5.4	5.2	5.4	5.4	5.4
87.5°	4.0	4.2	4.0	4.0	4.0	4.0
88°	3.0	3.0	3.0	2.8	2.8	2.6
88.5°	2.0	2.4	2.0	1.8	1.6	1.6



TEST NUMBER: P775920
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-2700K

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
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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1185.4	1183.4	1180.0	1181.0	1179.0	1181.0	1180.0	1183.4	1185.4	1183.4	1180.0
22°	1168.9	1166.9	1163.9	1164.3	1162.3	1164.3	1163.9	1166.9	1168.9	1166.9	1163.9



44°	306.1	308.5	313.1	313.5	315.5	313.5	313.1	308.5	306.1	308.5	313.1
44.5°	296.6	298.9	302.9	303.5	304.9	303.5	302.9	298.9	296.6	298.9	302.9



66.5°	89.8	90.0	90.2	90.4	90.6	90.4	90.2	90.0	89.8	90.0	90.2
67°	87.0	87.0	87.2	87.4	87.6	87.4	87.2	87.0	87.0	87.0	87.2



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°	1181.0	1179.0	1181.0	1180.0	1183.4	1185.4
22°	1164.3	1162.3	1164.3	1163.9	1166.9	1168.9

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44°	313.5	315.5	313.5	313.1	308.5	306.1
44.5°	303.5	304.9	303.5	302.9	298.9	296.6

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66.5°	90.4	90.6	90.4	90.2	90.0	89.8
67°	87.4	87.6	87.4	87.2	87.0	87.0



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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)