

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: P775989

Luminaire Tested: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B004)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K
Description: 4 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2625.2 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.09 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

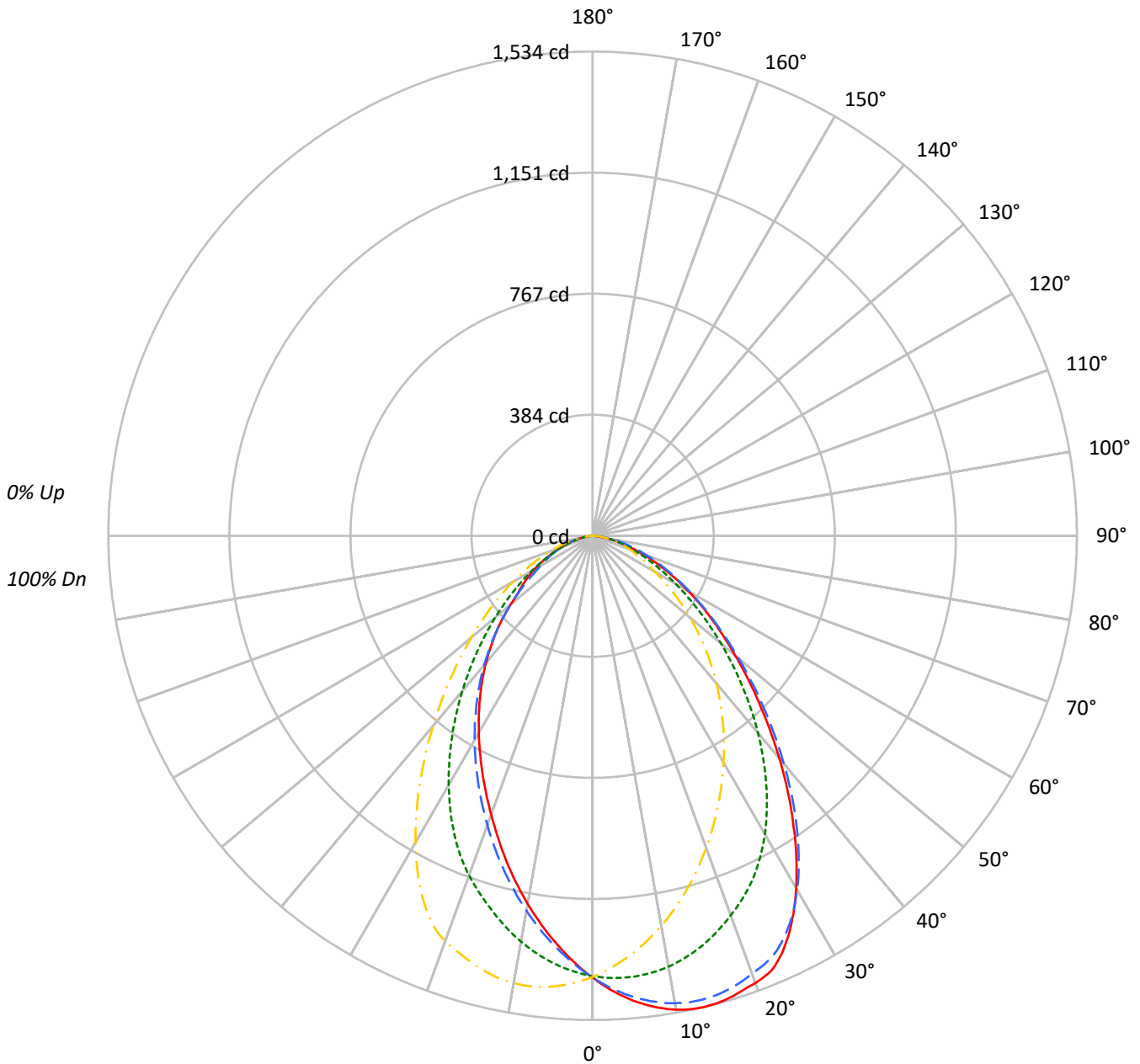
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			88	
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			76	
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66	
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58			58	
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54	52			52	
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46			46	
7	70	58	50	45	69	57	50	44	56	49	44	54	48	44	53	48	44	42			42	
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38			38	
9	62	49	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35			35	
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32			32	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	175976	175976	175976	175976
5°	186792	177229	164129	172050
10°	194818	177106	151343	166883
15°	199603	175083	138354	160217
20°	201894	171359	125864	153319
25°	199653	166674	114809	144234
30°	187403	158557	104775	132458
35°	170088	147243	95453	119205
40°	151093	133794	86348	105504
45°	132363	119032	76816	91748
50°	115378	103904	66509	78746
55°	100930	89433	59417	66899
60°	88045	76139	53788	55928
65°	74625	64500	46276	45978
70°	61376	54053	38084	37054
75°	47215	45172	30877	29126
80°	30149	37614	21887	21525
85°	8953	32778	8519	10108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 136865 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	5.0
10°-20°	363.5	13.8
20°-30°	515.1	19.6
30°-40°	538.2	20.5
40°-50°	453.0	17.3
50°-60°	321.7	12.3
60°-70°	195.1	7.4
70°-80°	89.5	3.4
80°-90°	18.0	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°	1009.8	38.5
0°-40°	1547.9	59.0
0°-60°	2322.6	88.5
0°-90°	2625.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1398	1398	1398	1398	1398	
5°	1479	1403	1299	1362	1479	143
15°	1532	1344	1062	1230	1532	432
25°	1438	1200	827	1039	1438	656
35°	1107	958	621	776	1107	690
45°	744	669	432	516	744	575
55°	460	408	271	305	460	414
65°	251	217	155	154	251	250
75°	97	93	64	60	97	105
85°	6	23	6	7	6	12
90°	0	1	0	0	0	



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
0.5°	1409.1	1409.1	1407.6	1404.5	1397.0	1394.2	1392.4	1391.1	1391.1	1390.8	1391.8
1°	1418.2	1417.9	1414.8	1409.4	1398.5	1392.4	1387.2	1383.1	1381.5	1381.0	1383.6
1.5°	1426.7	1426.7	1422.3	1414.3	1400.1	1390.0	1381.3	1374.8	1372.0	1371.4	1375.1
2°	1434.9	1434.9	1429.5	1418.7	1401.4	1387.7	1375.3	1366.3	1361.9	1361.4	1366.3
2.5°	1442.9	1443.2	1436.2	1423.1	1402.4	1384.9	1369.4	1357.5	1351.8	1351.3	1357.2
3°	1450.4	1450.9	1442.9	1426.9	1402.9	1382.0	1363.2	1348.7	1341.8	1341.0	1348.5
3.5°	1457.9	1458.4	1449.1	1430.6	1403.5	1378.7	1356.5	1339.7	1331.4	1330.4	1339.4
4°	1465.1	1465.9	1455.1	1434.2	1403.5	1375.3	1349.8	1330.4	1320.6	1319.8	1329.9
4.5°	1471.9	1472.9	1460.8	1437.5	1403.5	1371.4	1342.8	1320.8	1309.7	1309.5	1320.3
5°	1478.6	1479.6	1466.2	1440.4	1402.9	1367.6	1335.6	1311.3	1299.2	1298.4	1310.8
5.5°	1484.5	1486.1	1471.3	1442.9	1402.7	1363.4	1328.3	1301.5	1288.1	1287.0	1301.0
6°	1490.4	1492.2	1476.2	1445.5	1401.6	1359.1	1320.6	1291.7	1277.0	1275.9	1290.9
6.5°	1495.9	1497.9	1480.6	1447.6	1400.6	1354.7	1313.1	1281.9	1265.9	1264.8	1280.8
7°	1501.0	1503.3	1485.0	1449.4	1399.3	1349.8	1305.4	1271.5	1254.3	1253.7	1270.8
7.5°	1505.9	1508.5	1488.9	1450.9	1397.5	1344.6	1297.1	1261.2	1242.9	1242.1	1260.2
8°	1510.3	1513.2	1492.5	1452.0	1395.7	1339.4	1288.8	1250.9	1231.3	1230.5	1249.6
8.5°	1514.2	1517.5	1495.9	1453.0	1393.6	1333.8	1280.3	1240.3	1219.7	1218.9	1239.0
9°	1518.1	1521.7	1499.0	1453.8	1391.3	1328.3	1272.1	1229.7	1207.8	1207.0	1228.4
9.5°	1521.4	1525.3	1501.5	1454.3	1388.7	1322.4	1263.0	1218.9	1195.9	1195.4	1217.6
10°	1524.5	1528.6	1503.9	1454.3	1385.9	1316.2	1254.3	1208.0	1184.3	1183.3	1206.5
10.5°	1527.1	1531.5	1505.7	1454.0	1382.8	1309.7	1245.0	1197.2	1172.2	1171.1	1195.4
11°	1529.2	1534.1	1507.5	1453.8	1379.4	1303.3	1236.4	1185.8	1160.0	1159.3	1184.3
11.5°	1531.0	1536.1	1508.5	1452.8	1375.8	1296.8	1226.6	1174.7	1148.2	1147.4	1173.2
12°	1532.3	1537.9	1509.5	1451.7	1372.0	1289.9	1217.1	1163.4	1135.8	1135.0	1161.8
12.5°	1533.3	1539.2	1510.1	1450.4	1367.8	1282.9	1207.3	1152.3	1123.6	1122.9	1150.2
13°	1533.8	1540.3	1510.3	1448.6	1363.4	1275.7	1198.0	1140.7	1111.5	1110.5	1139.1
13.5°	1534.1	1540.8	1510.1	1446.6	1358.8	1268.2	1188.2	1129.6	1099.1	1098.3	1127.5
14°	1533.5	1541.0	1509.5	1444.2	1354.1	1260.4	1178.1	1117.7	1086.7	1085.7	1115.9
14.5°	1533.0	1540.8	1508.5	1441.7	1348.7	1252.7	1168.0	1106.1	1074.6	1073.3	1104.3
15°	1532.0	1540.0	1507.2	1438.6	1343.8	1245.0	1157.7	1094.2	1061.9	1061.2	1092.4
15.5°	1530.4	1539.0	1505.7	1435.5	1338.1	1236.7	1147.6	1082.6	1049.6	1048.8	1080.8
16°	1528.9	1537.4	1503.6	1431.8	1332.2	1228.4	1137.3	1071.0	1037.2	1036.1	1069.2
16.5°	1526.6	1535.6	1501.3	1428.0	1326.3	1219.9	1126.7	1059.4	1025.0	1023.7	1057.6
17°	1524.3	1533.5	1498.4	1423.8	1320.1	1211.7	1116.4	1047.5	1012.4	1011.4	1045.7
17.5°	1521.4	1531.2	1495.6	1419.5	1313.4	1202.6	1105.6	1035.6	1000.0	999.2	1034.1
18°	1518.6	1528.4	1492.2	1414.8	1306.9	1193.8	1095.0	1023.7	987.9	986.6	1022.2
18.5°	1515.2	1525.3	1488.6	1409.9	1300.2	1184.8	1084.1	1011.6	975.7	974.4	1010.3
19°	1512.4	1521.9	1484.8	1405.0	1293.5	1176.0	1073.8	999.7	963.6	962.0	998.7
19.5°	1510.1	1518.8	1480.9	1399.6	1286.5	1167.0	1062.5	988.1	952.0	950.2	986.8
20°	1507.5	1516.3	1476.8	1394.2	1279.5	1158.0	1051.6	976.2	939.8	938.0	975.2
20.5°	1504.6	1513.4	1472.9	1389.0	1272.3	1148.7	1040.8	964.4	928.5	926.4	963.3
21°	1501.3	1510.3	1469.3	1383.8	1265.1	1139.4	1029.9	953.0	916.6	914.6	951.7



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CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1487.1	1498.2	1455.9	1366.8	1242.6	1111.2	996.6	918.7	882.5	880.0	916.9
23°	1479.1	1492.2	1450.4	1360.6	1234.6	1101.7	985.8	907.6	870.9	868.6	905.3
23.5°	1470.0	1485.3	1444.5	1353.9	1226.4	1091.9	974.4	896.2	860.1	857.8	893.9
24°	1460.5	1476.8	1436.7	1346.4	1217.9	1082.1	963.3	885.1	849.0	846.1	882.3
24.5°	1449.9	1467.0	1428.2	1338.7	1209.1	1071.8	952.0	874.3	837.9	834.8	870.9
25°	1437.8	1457.1	1419.2	1329.9	1200.3	1061.4	941.1	862.9	826.8	823.9	859.6
25.5°	1425.4	1446.8	1409.4	1320.6	1190.5	1051.1	930.0	852.3	816.2	813.1	848.2
26°	1413.0	1435.2	1399.1	1310.8	1180.9	1040.5	918.9	841.2	805.4	802.3	836.9
26.5°	1399.3	1422.3	1388.2	1300.2	1170.4	1029.7	907.3	830.7	794.5	791.2	825.5
27°	1384.9	1409.9	1376.9	1289.1	1160.0	1019.1	896.2	819.6	783.7	780.6	814.1
27.5°	1369.6	1396.5	1364.5	1277.7	1148.9	1008.0	885.1	809.0	773.4	770.0	803.3
28°	1355.2	1382.0	1351.6	1265.6	1138.1	996.9	874.0	798.1	762.5	759.4	791.9
28.5°	1338.9	1367.3	1338.4	1253.5	1126.5	985.8	862.7	787.8	752.4	748.8	780.8
29°	1322.7	1352.3	1324.7	1240.6	1114.9	974.2	851.6	777.2	741.9	738.3	769.7
29.5°	1306.1	1336.6	1310.3	1227.7	1102.7	963.1	840.7	766.6	731.3	727.9	758.6
30°	1289.6	1320.6	1295.6	1214.2	1091.1	951.2	829.4	756.3	721.0	717.6	747.8
30.5°	1271.8	1304.1	1280.3	1200.3	1078.5	939.3	818.3	746.0	710.9	707.3	736.7
31°	1254.3	1287.0	1264.6	1186.4	1065.8	927.7	807.2	735.4	700.6	696.9	725.6
31.5°	1236.4	1269.5	1248.6	1171.6	1052.9	915.6	796.1	724.8	690.8	686.4	714.5
32°	1218.4	1252.2	1232.3	1156.9	1040.3	903.7	785.0	714.5	680.4	676.3	703.9
32.5°	1200.0	1234.4	1215.3	1142.2	1026.8	891.8	774.1	704.4	670.6	666.2	692.8
33°	1182.0	1216.3	1198.5	1127.3	1013.4	879.4	762.8	694.1	660.6	656.2	682.0
33.5°	1163.6	1197.7	1181.2	1111.5	1000.0	867.3	751.9	684.0	650.7	646.1	670.9
34°	1145.1	1179.7	1163.6	1095.8	986.3	854.9	740.6	674.0	640.9	636.0	660.3
34.5°	1125.7	1160.3	1145.1	1080.0	972.4	842.5	729.7	663.7	631.1	626.0	649.5
35°	1107.1	1141.7	1127.3	1063.8	958.4	830.1	718.6	653.6	621.3	616.2	638.6
35.5°	1088.5	1122.6	1109.2	1047.5	944.5	818.0	707.8	643.5	612.0	606.3	628.0
36°	1069.9	1104.3	1090.9	1031.0	930.3	805.6	696.7	633.7	602.0	596.3	617.7
36.5°	1050.8	1085.2	1072.3	1014.4	916.1	792.7	685.9	623.6	592.7	586.5	606.9
37°	1031.5	1065.6	1054.2	997.7	901.6	780.3	674.8	613.6	582.6	576.7	596.3
37.5°	1013.2	1046.5	1035.6	980.9	887.2	768.2	663.9	603.8	573.3	566.9	586.0
38°	994.3	1027.4	1017.0	963.9	872.7	755.3	652.8	594.0	563.5	557.3	575.4
38.5°	975.5	1008.0	997.9	946.8	858.3	742.9	642.5	584.1	553.9	547.5	564.8
39°	956.4	989.4	979.9	929.8	843.8	730.2	631.4	574.1	544.7	537.9	554.7
39.5°	938.3	970.3	961.0	912.7	829.1	717.9	620.8	564.3	535.4	528.1	544.1
40°	919.7	950.9	942.7	895.7	814.4	705.0	610.0	554.5	525.6	518.6	534.1
40.5°	900.9	931.8	923.8	878.7	799.7	692.6	599.1	544.4	516.0	508.8	523.5
41°	882.5	913.5	906.0	861.4	785.0	679.9	588.5	534.8	506.7	499.0	513.7
41.5°	864.7	894.9	887.4	844.6	770.8	667.5	578.0	525.0	497.4	489.4	503.4
42°	846.9	876.1	869.6	827.8	755.8	654.9	567.1	515.2	487.9	480.1	493.3
42.5°	828.9	857.5	851.6	810.8	741.3	642.7	556.5	505.7	478.3	470.6	483.5
43°	811.6	840.0	833.5	794.5	726.9	630.4	546.2	496.1	469.0	461.0	473.4
43.5°	794.5	821.9	815.7	777.5	712.2	618.0	535.4	486.3	459.7	451.5	463.1



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	743.7	769.0	763.8	728.7	668.8	581.0	504.4	457.4	431.6	423.3	433.9
45.5°	727.4	751.9	746.8	712.2	654.6	568.9	493.8	447.6	422.6	414.0	424.1
46°	710.9	734.9	730.0	696.4	640.4	556.8	483.5	438.3	413.3	404.7	414.3
46.5°	694.4	718.4	713.7	680.7	626.5	544.9	473.2	428.8	404.0	395.2	404.7
47°	679.1	702.1	696.9	665.2	612.0	532.8	462.8	419.2	394.7	386.2	395.7
47.5°	663.7	685.6	680.7	649.5	598.1	520.9	452.8	409.9	385.1	376.9	385.6
48°	647.9	669.3	664.9	634.2	584.4	509.3	442.4	400.6	376.4	367.8	376.4
48.5°	632.9	654.4	649.5	619.5	571.0	497.7	432.6	391.1	367.1	358.5	367.1
49°	618.7	638.9	634.2	604.8	557.3	485.8	422.6	382.0	357.8	349.8	358.3
49.5°	604.0	623.4	619.0	590.1	543.9	474.7	412.5	372.7	348.7	340.7	348.7
50°	589.3	608.4	603.8	575.9	530.7	463.1	402.7	363.4	339.7	332.0	340.0
50.5°	575.9	594.2	589.1	561.2	517.5	451.7	392.9	354.2	330.4	323.2	330.9
51°	561.9	580.0	574.3	547.5	504.9	440.6	383.1	345.1	321.6	314.1	322.1
51.5°	548.0	565.3	560.4	533.6	492.3	429.5	373.5	336.1	313.1	305.9	313.4
52°	535.1	551.9	546.7	520.1	479.3	418.7	364.0	327.3	304.1	297.6	304.9
52.5°	522.5	538.7	532.8	507.0	467.0	407.6	354.4	318.3	296.1	289.1	296.1
53°	509.0	524.8	519.4	493.5	454.8	397.0	345.1	309.5	291.7	280.8	287.8
53.5°	496.1	511.9	506.2	480.6	442.7	386.4	335.6	301.0	287.0	273.1	279.6
54°	484.5	499.2	493.0	468.0	430.6	375.8	326.5	292.5	281.9	268.5	271.6
54.5°	472.4	486.8	480.4	455.6	418.9	365.5	317.5	284.2	276.2	263.6	263.6
55°	460.0	474.4	468.0	443.2	407.6	355.4	308.7	276.2	270.8	258.4	255.8
55.5°	449.1	462.3	455.9	431.3	396.2	345.4	299.9	267.9	264.8	253.0	248.3
56°	437.5	450.4	443.7	419.2	384.9	335.6	291.2	262.0	259.2	247.5	240.8
56.5°	425.9	438.8	432.1	407.8	373.8	325.8	282.4	257.4	253.5	241.9	233.6
57°	414.8	427.2	420.5	396.5	363.2	316.2	274.1	252.2	247.5	236.4	226.6
57.5°	404.0	416.4	409.1	385.4	352.6	306.7	265.9	247.0	241.9	231.0	220.4
58°	392.4	405.3	398.0	374.3	342.3	297.6	257.9	241.6	236.4	225.6	214.2
58.5°	381.8	394.2	387.2	363.7	332.0	288.6	250.1	236.2	230.8	220.2	208.1
59°	370.7	383.6	376.4	353.1	321.9	279.6	242.4	230.5	225.1	215.0	201.9
59.5°	359.8	372.7	366.0	342.8	312.1	270.8	234.6	225.1	219.4	209.9	195.7
60°	349.8	362.2	355.7	332.5	302.5	262.3	227.2	219.9	213.7	204.4	191.0
60.5°	338.4	351.8	345.6	322.7	293.0	254.0	220.4	214.5	208.1	199.3	186.4
61°	328.6	340.7	335.3	312.9	283.9	245.7	213.7	209.1	202.4	193.9	181.7
61.5°	318.3	331.2	326.0	303.6	274.6	237.5	207.0	203.9	196.7	188.7	177.1
62°	308.5	321.1	316.5	294.0	265.9	230.0	200.3	198.5	190.8	183.5	172.4
62.5°	298.4	311.0	306.9	285.0	257.1	222.5	193.6	192.8	184.8	178.1	167.8
63°	288.3	301.5	297.6	275.7	248.6	215.3	187.1	187.4	178.9	172.7	163.1
63.5°	278.8	291.7	288.6	266.9	240.1	207.8	181.5	181.7	172.9	167.5	158.5
64°	269.0	282.4	279.8	258.1	231.8	200.6	176.0	176.3	167.0	162.1	154.4
64.5°	259.9	272.8	271.0	249.9	224.3	193.1	171.4	170.9	161.1	156.7	150.0
65°	250.6	264.1	262.5	241.6	216.6	186.6	167.0	165.7	155.4	151.5	145.6
65.5°	241.9	254.8	254.0	233.6	208.8	179.9	162.6	160.0	149.7	146.1	141.2
66°	232.6	246.3	245.7	225.6	201.3	172.9	158.0	154.9	144.0	140.9	137.1



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	207.0	220.4	221.5	202.6	179.7	154.9	144.8	139.1	127.5	125.7	124.4
68°	198.5	212.2	213.7	195.4	172.4	148.9	140.4	134.0	122.4	120.5	120.3
68.5°	190.2	204.2	206.2	187.9	166.0	143.3	136.3	129.1	117.4	115.9	116.2
69°	182.5	196.2	198.8	180.9	159.5	137.8	131.9	123.9	112.5	111.0	112.0
69.5°	174.5	188.2	191.0	174.0	153.1	132.4	127.5	119.0	108.2	106.6	107.9
70°	166.8	180.7	184.0	167.5	146.9	127.3	123.4	114.1	103.5	102.2	103.8
70.5°	159.0	173.2	177.1	160.6	140.7	122.4	119.3	109.7	99.1	97.8	99.6
71°	151.5	165.7	170.1	154.4	135.0	117.4	115.1	105.1	95.0	93.7	95.8
71.5°	144.3	158.5	162.9	147.9	129.1	112.8	111.0	100.7	90.9	89.6	91.6
72°	137.3	151.3	156.4	141.7	123.6	108.2	106.9	96.5	86.7	85.4	87.8
72.5°	130.1	144.6	149.7	135.8	118.0	103.8	102.7	92.4	82.6	81.6	83.9
73°	123.1	137.8	143.3	129.6	112.8	99.6	98.9	88.3	78.7	77.7	80.0
73.5°	116.4	130.9	136.8	123.9	107.4	95.2	94.7	84.4	74.9	73.8	76.1
74°	109.7	124.7	130.6	118.5	102.5	91.1	90.9	80.5	71.0	70.0	72.5
74.5°	103.3	118.2	124.7	112.8	97.6	87.2	87.2	76.7	67.4	66.3	69.2
75°	97.1	112.0	118.5	107.4	92.9	83.4	83.1	73.1	63.5	62.5	65.6
75.5°	91.1	105.8	112.5	102.2	88.3	79.5	79.5	69.4	59.9	58.9	62.2
76°	85.2	100.2	106.9	97.1	83.9	75.9	75.6	65.6	56.5	55.2	58.9
76.5°	79.5	94.2	101.2	92.2	79.5	72.3	72.3	62.0	52.9	51.9	55.5
77°	73.6	88.8	95.8	87.5	75.4	68.9	68.7	58.6	49.6	48.3	52.1
77.5°	67.9	83.6	90.6	82.6	71.0	65.6	65.3	55.2	46.2	44.9	49.0
78°	62.5	78.2	85.7	78.0	67.1	62.2	61.7	51.6	42.8	41.6	45.7
78.5°	56.8	72.8	80.5	73.3	63.0	59.1	58.6	48.3	39.5	38.2	42.6
79°	51.6	67.6	75.4	68.9	59.4	56.3	55.2	44.9	36.4	35.1	39.5
79.5°	46.5	62.7	70.5	64.5	55.5	53.2	51.9	41.8	33.3	32.0	36.4
80°	41.6	57.8	65.6	60.4	51.9	50.3	48.8	38.5	30.2	28.9	33.6
80.5°	36.7	52.9	61.2	56.3	48.5	47.5	45.7	35.4	27.1	26.1	30.7
81°	32.0	48.5	56.8	52.4	45.2	44.7	42.6	32.3	24.3	23.5	28.1
81.5°	27.4	44.1	52.1	48.5	42.1	41.8	39.8	29.4	21.4	20.9	25.3
82°	22.7	40.0	48.0	44.9	39.0	39.0	36.7	26.3	18.6	18.3	23.0
82.5°	18.6	35.9	44.1	41.3	35.9	36.1	33.8	24.0	15.7	15.7	20.7
83°	14.5	32.0	40.3	37.9	33.0	33.6	31.0	21.4	12.9	13.2	18.3
83.5°	10.6	28.4	36.7	34.6	30.2	31.0	28.4	18.8	10.3	11.4	16.0
84°	9.3	25.0	33.0	31.2	27.6	28.1	25.8	16.5	8.3	9.8	13.7
84.5°	7.7	22.2	29.7	28.1	25.0	25.8	23.5	13.9	6.7	8.5	11.6
85°	6.2	19.6	26.3	25.0	22.7	23.2	20.9	12.4	5.9	7.2	9.6
85.5°	4.6	17.0	23.2	22.2	20.1	20.9	18.6	10.8	4.9	5.9	7.5
86°	3.4	14.7	20.1	19.4	17.8	18.3	16.3	9.3	4.1	4.6	5.7
86.5°	2.6	12.4	17.0	16.5	15.2	15.7	13.7	7.7	3.4	3.6	3.6
87°	1.8	10.1	14.2	13.9	12.9	13.4	11.6	6.5	2.6	2.3	1.8
87.5°	1.3	7.7	11.4	11.4	10.8	11.1	9.3	4.9	1.5	1.3	0.5
88°	0.5	5.7	8.8	9.0	8.8	9.0	7.2	3.6	0.8	0.5	0.3
88.5°	0.3	3.6	6.7	7.0	6.7	6.7	5.2	2.1	0.3	0.3	0.0



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.3	0.3	0.8	1.3	1.0	0.5	0.3	0.0	0.3	0.0

TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
0.5°	1393.6	1392.6	1397.3	1402.2	1406.3	1409.1
1°	1388.0	1390.3	1398.5	1406.8	1413.5	1418.2
1.5°	1382.0	1387.7	1399.3	1410.9	1420.5	1426.7
2°	1375.8	1384.3	1399.8	1415.1	1427.5	1434.9
2.5°	1369.4	1381.5	1400.4	1418.9	1433.7	1442.9
3°	1362.9	1378.2	1400.4	1422.3	1439.8	1450.4
3.5°	1356.0	1374.5	1400.4	1425.6	1445.8	1457.9
4°	1349.0	1370.7	1399.8	1428.5	1451.2	1465.1
4.5°	1342.0	1366.3	1399.1	1431.1	1456.6	1471.9
5°	1334.3	1361.9	1398.3	1433.4	1461.5	1478.6
5.5°	1326.8	1357.5	1397.0	1435.5	1466.4	1484.5
6°	1319.0	1352.6	1395.7	1437.0	1470.6	1490.4
6.5°	1311.3	1347.4	1393.6	1438.6	1474.7	1495.9
7°	1303.0	1342.3	1391.8	1439.6	1478.0	1501.0
7.5°	1294.8	1336.6	1389.5	1440.4	1481.4	1505.9
8°	1286.3	1330.9	1386.7	1440.9	1484.2	1510.3
8.5°	1277.5	1324.7	1383.8	1440.9	1486.8	1514.2
9°	1268.7	1318.8	1380.7	1440.9	1489.1	1518.1
9.5°	1259.9	1312.3	1377.4	1440.4	1491.0	1521.4
10°	1250.9	1305.9	1373.8	1439.3	1492.5	1524.5
10.5°	1241.6	1298.9	1369.9	1438.3	1493.8	1527.1
11°	1232.1	1292.2	1365.5	1436.7	1494.6	1529.2
11.5°	1222.5	1284.7	1360.9	1434.9	1494.8	1531.0
12°	1213.0	1277.5	1356.2	1432.6	1494.8	1532.3
12.5°	1203.1	1269.7	1351.0	1430.0	1494.3	1533.3
13°	1193.6	1262.0	1345.9	1427.2	1493.5	1533.8
13.5°	1183.8	1254.0	1340.5	1424.1	1492.2	1534.1
14°	1173.5	1246.2	1334.8	1420.7	1490.7	1533.5
14.5°	1163.1	1238.0	1328.9	1417.1	1488.9	1533.0
15°	1153.1	1229.7	1322.9	1413.0	1486.6	1532.0
15.5°	1143.0	1221.5	1316.7	1408.6	1484.0	1530.4
16°	1132.7	1213.5	1310.5	1404.2	1481.1	1528.9
16.5°	1122.3	1204.9	1304.1	1399.8	1478.0	1526.6
17°	1112.5	1196.7	1297.9	1394.9	1474.7	1524.3
17.5°	1102.0	1188.4	1291.7	1390.0	1471.1	1521.4
18°	1091.4	1179.9	1285.5	1385.9	1467.2	1518.6
18.5°	1080.8	1171.4	1278.8	1381.5	1464.1	1515.2
19°	1070.5	1162.6	1272.6	1376.9	1461.3	1512.4
19.5°	1060.1	1154.1	1265.4	1371.7	1458.2	1510.1
20°	1049.8	1144.8	1257.9	1366.3	1454.3	1507.5
20.5°	1039.2	1135.5	1250.4	1360.6	1450.2	1504.6
21°	1028.4	1125.7	1242.1	1354.1	1445.5	1501.3



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	995.6	1095.5	1213.7	1328.6	1425.1	1487.1
23°	984.2	1084.9	1203.1	1318.0	1415.8	1479.1
23.5°	973.1	1073.8	1191.8	1307.2	1405.8	1470.0
24°	961.8	1062.2	1180.2	1295.6	1394.9	1460.5
24.5°	950.7	1050.6	1167.5	1282.9	1383.6	1449.9
25°	939.1	1038.7	1155.4	1270.3	1371.2	1437.8
25.5°	927.5	1026.6	1142.7	1257.6	1357.8	1425.4
26°	915.6	1014.2	1129.6	1244.2	1344.3	1413.0
26.5°	903.7	1002.1	1116.2	1230.0	1330.4	1399.3
27°	892.1	989.7	1102.7	1216.0	1315.4	1384.9
27.5°	880.0	976.8	1089.0	1201.1	1299.7	1369.6
28°	867.8	963.6	1075.1	1185.6	1283.9	1355.2
28.5°	855.7	951.2	1060.9	1170.4	1268.2	1338.9
29°	843.6	937.8	1046.5	1154.9	1251.9	1322.7
29.5°	831.4	924.9	1032.3	1138.4	1234.9	1306.1
30°	819.0	911.5	1017.8	1122.3	1218.4	1289.6
30.5°	806.7	898.3	1002.6	1105.6	1200.6	1271.8
31°	794.3	884.9	987.9	1089.0	1183.3	1254.3
31.5°	782.1	871.4	972.6	1072.5	1165.5	1236.4
32°	770.0	857.5	957.1	1055.0	1147.6	1218.4
32.5°	757.4	844.3	942.2	1038.2	1129.3	1200.0
33°	745.2	830.4	926.7	1021.2	1111.8	1182.0
33.5°	733.1	817.2	911.5	1004.1	1093.7	1163.6
34°	721.2	803.3	895.5	987.1	1075.6	1145.1
34.5°	708.8	789.9	880.0	969.5	1057.3	1125.7
35°	696.4	775.9	864.2	952.5	1039.2	1107.1
35.5°	684.3	762.8	849.0	935.5	1020.9	1088.5
36°	672.4	749.6	833.2	918.4	1003.3	1069.9
36.5°	660.3	735.7	817.8	901.6	985.0	1050.8
37°	648.4	722.0	802.5	884.6	967.2	1031.5
37.5°	636.3	708.8	786.8	867.8	948.6	1013.2
38°	624.7	695.4	771.5	851.1	930.8	994.3
38.5°	612.8	682.0	756.3	834.8	913.3	975.5
39°	601.4	668.6	741.1	818.3	895.2	956.4
39.5°	589.6	655.4	726.4	802.0	878.2	938.3
40°	577.7	642.2	710.9	785.5	860.3	919.7
40.5°	566.3	629.1	696.7	769.7	843.3	900.9
41°	555.0	615.9	682.0	753.5	825.2	882.5
41.5°	543.6	602.7	667.5	738.3	809.0	864.7
42°	532.3	590.1	653.1	722.8	792.5	846.9
42.5°	521.2	577.4	639.1	707.5	775.7	828.9
43°	509.8	564.8	625.2	692.0	758.6	811.6
43.5°	499.0	552.4	611.3	677.3	742.9	794.5

TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	466.2	515.5	571.0	633.7	694.9	743.7
45.5°	455.3	503.6	558.1	619.5	680.2	727.4
46°	445.0	491.7	545.2	605.3	665.2	710.9
46.5°	434.4	479.9	532.3	591.9	650.2	694.4
47°	423.6	468.5	519.9	578.2	634.7	679.1
47.5°	413.5	456.9	507.5	564.8	620.5	663.7
48°	403.5	445.5	495.4	551.4	606.6	647.9
48.5°	393.4	434.4	483.2	538.7	592.7	632.9
49°	383.6	423.6	471.3	526.1	578.5	618.7
49.5°	373.5	413.0	459.7	513.7	565.3	604.0
50°	363.7	402.2	448.4	500.8	551.6	589.3
50.5°	354.2	391.8	436.8	488.9	538.5	575.9
51°	344.6	381.5	425.9	476.8	525.3	561.9
51.5°	335.6	371.4	414.8	465.1	513.2	548.0
52°	326.3	361.6	404.2	453.8	500.5	535.1
52.5°	317.2	351.8	393.4	441.9	488.1	522.5
53°	308.2	342.0	383.3	430.8	476.2	509.0
53.5°	299.7	332.5	372.7	419.7	464.4	496.1
54°	291.2	323.2	362.7	408.9	452.5	484.5
54.5°	282.4	313.6	352.3	398.3	441.4	472.4
55°	274.1	304.9	343.1	387.7	430.0	460.0
55.5°	266.1	295.8	333.5	377.4	418.9	449.1
56°	258.1	287.0	324.0	367.3	407.8	437.5
56.5°	250.1	278.5	314.7	357.3	397.5	425.9
57°	242.4	270.0	305.6	347.4	386.9	414.8
57.5°	235.2	261.5	296.3	337.6	376.6	404.0
58°	227.7	253.7	287.6	328.3	366.8	392.4
58.5°	220.7	245.5	278.8	319.0	356.7	381.8
59°	214.0	237.7	270.3	310.0	346.9	370.7
59.5°	207.0	230.0	262.0	300.7	337.1	359.8
60°	200.1	222.2	253.7	291.7	327.3	349.8
60.5°	193.1	214.8	245.5	283.2	317.8	338.4
61°	186.6	207.5	237.7	274.6	308.2	328.6
61.5°	180.2	200.3	229.7	266.1	298.7	318.3
62°	174.2	193.3	222.2	257.9	289.4	308.5
62.5°	168.3	186.6	214.5	249.6	279.8	298.4
63°	162.1	179.9	207.3	241.6	270.8	288.3
63.5°	156.4	173.2	199.8	233.9	261.7	278.8
64°	151.0	166.8	192.8	226.1	253.0	269.0
64.5°	145.6	160.6	185.9	218.4	244.4	259.9
65°	140.4	154.4	179.1	211.1	235.7	250.6
65.5°	135.3	148.2	172.2	203.4	227.4	241.9
66°	130.1	142.5	165.7	196.2	218.9	232.6



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	116.2	125.7	146.6	175.3	195.1	207.0
68°	111.8	120.5	140.7	168.6	187.4	198.5
68.5°	107.6	115.1	134.7	161.6	179.9	190.2
69°	103.5	110.2	129.1	155.1	172.4	182.5
69.5°	99.4	105.3	123.4	148.7	165.2	174.5
70°	95.8	100.7	118.0	142.5	157.7	166.8
70.5°	92.2	96.0	112.5	136.0	150.7	159.0
71°	88.8	92.9	107.4	130.1	143.8	151.5
71.5°	85.2	88.5	102.2	124.2	137.1	144.3
72°	81.8	84.2	97.3	118.2	130.6	137.3
72.5°	78.5	79.5	91.9	112.5	124.2	130.1
73°	75.4	75.1	87.5	106.9	117.7	123.1
73.5°	72.0	71.2	83.1	101.4	111.5	116.4
74°	68.9	67.4	78.7	96.0	105.6	109.7
74.5°	65.8	63.8	74.3	91.1	99.6	103.3
75°	62.5	59.9	70.2	86.0	94.2	97.1
75.5°	59.6	56.5	66.1	81.1	88.8	91.1
76°	56.5	53.2	62.0	75.9	83.6	85.2
76.5°	53.4	49.8	57.8	71.0	78.2	79.5
77°	50.3	46.7	54.2	66.3	73.1	73.6
77.5°	47.5	43.6	50.3	62.0	67.6	67.9
78°	44.7	40.8	47.0	57.6	63.0	62.5
78.5°	41.8	37.9	43.4	53.2	58.1	56.8
79°	39.0	35.1	40.0	49.3	53.4	51.6
79.5°	36.1	32.3	36.9	45.2	49.0	46.5
80°	33.3	29.7	33.6	41.3	44.7	41.6
80.5°	30.7	27.1	30.7	37.7	40.8	36.7
81°	28.1	24.5	27.9	34.1	36.9	32.0
81.5°	25.6	22.2	24.8	30.7	33.0	27.4
82°	23.0	19.9	22.2	27.4	29.4	22.7
82.5°	20.7	17.6	19.6	24.3	26.3	18.6
83°	18.1	15.2	17.0	21.4	23.0	14.5
83.5°	15.7	12.9	14.5	18.6	20.1	10.6
84°	13.2	10.8	12.1	15.7	17.6	9.3
84.5°	10.8	8.8	9.8	13.2	15.2	7.7
85°	8.5	7.0	7.7	10.6	12.9	6.2
85.5°	6.5	5.2	5.7	8.5	10.6	4.6
86°	4.4	3.4	3.9	6.5	8.5	3.4
86.5°	2.3	1.3	1.8	4.4	6.7	2.6
87°	0.8	0.3	0.5	2.3	4.6	1.8
87.5°	0.3	0.0	0.3	0.5	2.6	1.3
88°	0.0	0.0	0.0	0.0	0.5	0.5
88.5°	0.0	0.0	0.0	0.0	0.3	0.3



TEST NUMBER: P775989

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.3	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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1497.4	1506.7	1465.1	1378.4	1257.9	1130.1	1018.8	941.4	905.3	902.9	939.8
22°	1493.0	1502.8	1460.8	1372.7	1250.1	1120.5	1007.5	930.0	893.9	891.3	928.2



44°	777.0	803.8	798.7	761.0	697.5	605.3	525.0	476.5	450.2	442.2	453.3
44.5°	759.9	785.7	781.1	744.7	683.0	593.2	514.7	467.0	440.9	432.6	443.7



66.5°	224.1	237.5	237.5	217.9	193.6	166.8	153.6	149.7	138.4	135.8	132.7
67°	215.3	228.7	229.5	209.9	186.6	160.8	149.2	144.3	132.9	130.6	128.5



89°	0.0	1.5	4.6	4.9	4.6	4.6	3.1	1.0	0.0	0.3	0.0
89.5°	0.0	0.3	2.6	2.8	2.8	2.6	1.5	0.3	0.0	0.3	0.0

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21.5°	1017.5	1115.9	1233.6	1346.7	1440.1	1497.4
22°	1006.7	1106.1	1224.1	1338.4	1433.1	1493.0



44°	487.9	539.5	597.6	662.4	727.2	777.0
44.5°	477.0	527.4	584.1	648.2	711.4	759.9



66.5°	125.5	136.8	159.3	189.2	210.9	224.1
67°	120.8	131.1	152.8	182.0	202.9	215.3

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89°	0.0	0.0	0.0	0.0	0.3	0.0
89.5°	0.0	0.0	0.0	0.0	0.3	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)