

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: P775986

Luminaire Tested: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775986
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-3000K
Description: 4 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.8 lumens
Efficiency: N/A
Efficacy: 100.5 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

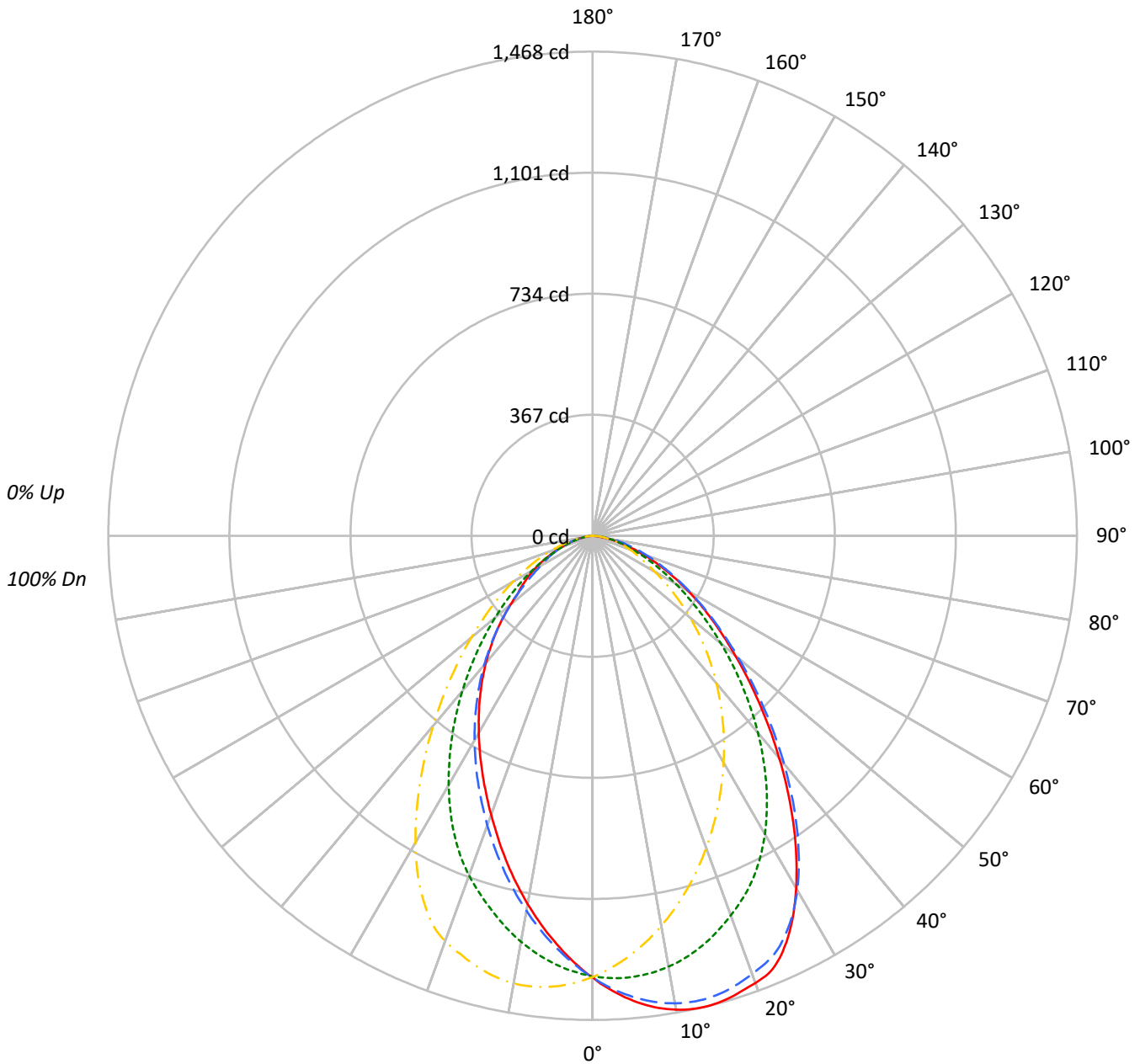
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775986

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	168437	168437	168437	168437
5°	178796	169649	157105	164684
10°	186486	169528	144864	159739
15°	191056	167591	132439	153364
20°	193256	164033	120480	146757
25°	191099	159536	109894	138068
30°	179382	151771	100285	126776
35°	162806	140944	91366	114104
40°	144637	128060	82652	100986
45°	126685	113942	73523	87815
50°	110444	99460	63670	75378
55°	96607	85593	56872	64025
60°	84269	72892	51498	53537
65°	71439	61731	44281	44013
70°	58726	51735	36465	35471
75°	45172	43227	29564	27862
80°	28845	36020	20945	20583
85°	8519	31334	8231	9675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 131010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	5.0
10°-20°	348.0	13.8
20°-30°	493.0	19.6
30°-40°	515.1	20.5
40°-50°	433.6	17.3
50°-60°	307.9	12.3
60°-70°	186.8	7.4
70°-80°	85.7	3.4
80°-90°	17.2	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°	966.6	38.5
0°-40°	1481.7	59.0
0°-60°	2223.2	88.5
0°-90°	2512.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1338	1338	1338	1338	1338	
5°	1415	1343	1244	1304	1415	136
15°	1466	1286	1016	1177	1466	414
25°	1376	1149	791	994	1376	628
35°	1060	917	595	743	1060	661
45°	712	640	413	493	712	550
55°	440	390	259	292	440	396
65°	240	207	149	148	240	239
75°	93	89	61	57	93	100
85°	6	22	6	7	6	11
90°	0	1	0	0	0	



TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4
0.5°	1348.8	1348.8	1347.3	1344.4	1337.2	1334.5	1332.8	1331.5	1331.5	1331.3	1332.3
1°	1357.5	1357.2	1354.3	1349.1	1338.7	1332.8	1327.8	1323.9	1322.4	1321.9	1324.4
1.5°	1365.6	1365.6	1361.4	1353.8	1340.2	1330.5	1322.1	1316.0	1313.2	1312.7	1316.2
2°	1373.5	1373.5	1368.3	1358.0	1341.4	1328.3	1316.4	1307.8	1303.6	1303.1	1307.8
2.5°	1381.2	1381.4	1374.8	1362.2	1342.4	1325.6	1310.8	1299.4	1294.0	1293.5	1299.2
3°	1388.3	1388.8	1381.2	1365.9	1342.9	1322.9	1304.8	1291.0	1284.3	1283.6	1290.8
3.5°	1395.5	1396.0	1387.1	1369.3	1343.4	1319.7	1298.4	1282.4	1274.4	1273.5	1282.1
4°	1402.4	1403.2	1392.8	1372.8	1343.4	1316.4	1292.0	1273.5	1264.1	1263.3	1273.0
4.5°	1408.9	1409.8	1398.2	1376.0	1343.4	1312.7	1285.3	1264.3	1253.7	1253.4	1263.8
5°	1415.3	1416.3	1403.4	1378.7	1342.9	1309.0	1278.4	1255.2	1243.6	1242.8	1254.7
5.5°	1421.0	1422.4	1408.4	1381.2	1342.6	1305.1	1271.5	1245.8	1232.9	1231.9	1245.3
6°	1426.6	1428.4	1413.1	1383.7	1341.7	1300.9	1264.1	1236.4	1222.3	1221.3	1235.7
6.5°	1431.8	1433.8	1417.3	1385.6	1340.7	1296.7	1256.9	1227.0	1211.7	1210.7	1226.0
7°	1436.8	1439.0	1421.5	1387.4	1339.4	1292.0	1249.5	1217.1	1200.6	1200.1	1216.4
7.5°	1441.5	1443.9	1425.2	1388.8	1337.7	1287.0	1241.6	1207.2	1189.7	1189.0	1206.3
8°	1445.7	1448.4	1428.6	1389.8	1336.0	1282.1	1233.7	1197.4	1178.6	1177.8	1196.1
8.5°	1449.4	1452.6	1431.8	1390.8	1334.0	1276.7	1225.5	1187.2	1167.5	1166.7	1186.0
9°	1453.1	1456.5	1434.8	1391.6	1331.8	1271.5	1217.6	1177.1	1156.1	1155.4	1175.9
9.5°	1456.3	1460.0	1437.3	1392.1	1329.3	1265.8	1209.0	1166.7	1144.7	1144.2	1165.5
10°	1459.3	1463.2	1439.5	1392.1	1326.6	1259.9	1200.6	1156.3	1133.6	1132.6	1154.9
10.5°	1461.7	1465.9	1441.2	1391.8	1323.6	1253.7	1191.7	1146.0	1122.0	1121.0	1144.2
11°	1463.7	1468.4	1443.0	1391.6	1320.4	1247.5	1183.5	1135.1	1110.4	1109.6	1133.6
11.5°	1465.4	1470.4	1443.9	1390.6	1316.9	1241.3	1174.1	1124.5	1099.0	1098.3	1123.0
12°	1466.7	1472.1	1444.9	1389.6	1313.2	1234.7	1165.0	1113.6	1087.2	1086.4	1112.1
12.5°	1467.7	1473.3	1445.4	1388.3	1309.3	1228.0	1155.6	1103.0	1075.5	1074.8	1101.0
13°	1468.2	1474.3	1445.7	1386.6	1305.1	1221.1	1146.7	1091.9	1063.9	1062.9	1090.4
13.5°	1468.4	1474.8	1445.4	1384.6	1300.6	1213.9	1137.3	1081.2	1052.1	1051.3	1079.3
14°	1467.9	1475.1	1444.9	1382.4	1296.2	1206.5	1127.7	1069.9	1040.2	1039.2	1068.1
14.5°	1467.4	1474.8	1443.9	1379.9	1291.0	1199.1	1118.0	1058.7	1028.6	1027.4	1057.0
15°	1466.4	1474.1	1442.7	1377.0	1286.3	1191.7	1108.2	1047.4	1016.5	1015.8	1045.6
15.5°	1464.9	1473.1	1441.2	1374.0	1280.9	1183.8	1098.5	1036.3	1004.6	1003.9	1034.5
16°	1463.5	1471.6	1439.2	1370.6	1275.2	1175.9	1088.6	1025.1	992.8	991.8	1023.4
16.5°	1461.2	1469.9	1437.0	1366.9	1269.5	1167.7	1078.5	1014.0	981.2	979.9	1012.3
17°	1459.0	1467.9	1434.3	1362.9	1263.6	1159.8	1068.6	1002.7	969.1	968.1	1000.9
17.5°	1456.3	1465.7	1431.6	1358.7	1257.1	1151.2	1058.2	991.3	957.2	956.5	989.8
18°	1453.6	1463.0	1428.4	1354.3	1251.0	1142.8	1048.1	979.9	945.6	944.3	978.4
18.5°	1450.4	1460.0	1424.9	1349.6	1244.5	1134.1	1037.7	968.3	934.0	932.7	967.1
19°	1447.6	1456.8	1421.2	1344.9	1238.1	1125.7	1027.9	956.9	922.4	920.9	956.0
19.5°	1445.4	1453.8	1417.5	1339.7	1231.5	1117.1	1017.0	945.8	911.2	909.5	944.6
20°	1443.0	1451.4	1413.6	1334.5	1224.8	1108.4	1006.6	934.5	899.6	897.9	933.5
20.5°	1440.2	1448.6	1409.8	1329.5	1217.9	1099.5	996.2	923.1	888.8	886.8	922.1
21°	1437.0	1445.7	1406.4	1324.6	1210.9	1090.6	985.9	912.2	877.4	875.4	911.0



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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°	1423.4	1434.1	1393.5	1308.3	1189.4	1063.7	954.0	879.4	844.8	842.3	877.6
23°	1415.8	1428.4	1388.3	1302.4	1181.8	1054.5	943.6	868.7	833.7	831.4	866.5
23.5°	1407.1	1421.7	1382.7	1295.9	1173.9	1045.2	932.7	857.9	823.3	821.1	855.6
24°	1398.0	1413.6	1375.3	1288.8	1165.7	1035.8	922.1	847.2	812.6	809.9	844.5
24.5°	1387.9	1404.2	1367.1	1281.4	1157.3	1025.9	911.2	836.9	802.0	799.1	833.7
25°	1376.2	1394.8	1358.5	1273.0	1148.9	1016.0	900.9	826.0	791.4	788.7	822.8
25.5°	1364.4	1384.9	1349.1	1264.1	1139.5	1006.1	890.2	815.9	781.3	778.3	811.9
26°	1352.5	1373.8	1339.2	1254.7	1130.4	996.0	879.6	805.2	770.9	767.9	801.0
26.5°	1339.4	1361.4	1328.8	1244.5	1120.3	985.6	868.5	795.1	760.5	757.3	790.2
27°	1325.6	1349.6	1317.9	1233.9	1110.4	975.5	857.9	784.5	750.1	747.2	779.3
27.5°	1311.0	1336.7	1306.1	1223.1	1099.8	964.9	847.2	774.4	740.3	737.0	768.9
28°	1297.2	1322.9	1293.7	1211.4	1089.4	954.2	836.6	764.0	729.9	726.9	758.0
28.5°	1281.6	1308.8	1281.1	1199.8	1078.3	943.6	825.7	754.1	720.2	716.8	747.4
29°	1266.0	1294.5	1268.0	1187.5	1067.1	932.5	815.1	744.0	710.1	706.7	736.8
29.5°	1250.2	1279.4	1254.2	1175.1	1055.5	921.9	804.7	733.8	700.0	696.8	726.2
30°	1234.4	1264.1	1240.1	1162.3	1044.4	910.5	793.9	723.9	690.1	686.9	715.8
30.5°	1217.4	1248.3	1225.5	1148.9	1032.3	899.1	783.2	714.1	680.5	677.0	705.2
31°	1200.6	1231.9	1210.5	1135.6	1020.2	888.0	772.6	703.9	670.6	667.1	694.5
31.5°	1183.5	1215.1	1195.1	1121.5	1007.8	876.4	762.0	693.8	661.2	657.0	683.9
32°	1166.2	1198.6	1179.6	1107.4	995.7	865.0	751.4	683.9	651.3	647.4	673.8
32.5°	1148.7	1181.5	1163.3	1093.3	982.9	853.7	741.0	674.3	641.9	637.7	663.2
33°	1131.4	1164.2	1147.2	1079.0	970.0	841.8	730.1	664.4	632.3	628.1	652.8
33.5°	1113.8	1146.5	1130.6	1063.9	957.2	830.2	719.7	654.8	622.9	618.4	642.2
34°	1096.1	1129.2	1113.8	1048.9	944.1	818.3	708.9	645.1	613.5	608.8	632.0
34.5°	1077.5	1110.6	1096.1	1033.8	930.8	806.5	698.5	635.2	604.1	599.2	621.7
35°	1059.7	1092.8	1079.0	1018.2	917.4	794.6	687.9	625.6	594.7	589.8	611.3
35.5°	1041.9	1074.6	1061.7	1002.7	904.1	783.0	677.5	616.0	585.8	580.4	601.1
36°	1024.2	1057.0	1044.2	986.8	890.5	771.1	666.9	606.6	576.2	570.8	591.3
36.5°	1005.9	1038.7	1026.4	971.0	876.9	758.8	656.5	596.9	567.3	561.4	580.9
37°	987.3	1020.0	1009.1	955.0	863.1	746.9	645.9	587.3	557.7	552.0	570.8
37.5°	969.8	1001.7	991.3	938.9	849.2	735.3	635.5	577.9	548.8	542.6	560.9
38°	951.8	983.4	973.5	922.6	835.4	723.0	624.9	568.5	539.4	533.4	550.7
38.5°	933.7	964.9	955.2	906.3	821.5	711.1	615.0	559.1	530.2	524.1	540.6
39°	915.4	947.1	937.9	890.0	807.7	699.0	604.4	549.5	521.3	514.9	531.0
39.5°	898.1	928.8	919.9	873.7	793.6	687.1	594.2	540.1	512.4	505.5	520.8
40°	880.4	910.2	902.3	857.4	779.5	674.8	583.9	530.7	503.1	496.4	511.2
40.5°	862.3	892.0	884.3	841.1	765.5	662.9	573.5	521.1	493.9	487.0	501.1
41°	844.8	874.4	867.3	824.5	751.4	650.8	563.3	512.0	485.0	477.6	491.7
41.5°	827.7	856.6	849.5	808.4	737.8	639.0	553.2	502.6	476.1	468.5	481.8
42°	810.7	838.6	832.4	792.4	723.5	626.8	542.8	493.2	467.0	459.6	472.2
42.5°	793.4	820.8	815.1	776.1	709.6	615.2	532.7	484.0	457.8	450.4	462.8
43°	776.8	804.0	797.8	760.5	695.8	603.4	522.8	474.9	448.9	441.3	453.1
43.5°	760.5	786.7	780.8	744.2	681.7	591.5	512.4	465.5	440.1	432.1	443.3



TEST NUMBER: P775986

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	711.8	736.1	731.1	697.5	640.2	556.2	482.8	437.8	413.1	405.2	415.3
45.5°	696.3	719.7	714.8	681.7	626.6	544.6	472.7	428.4	404.5	396.3	406.0
46°	680.5	703.4	698.7	666.6	613.0	533.0	462.8	419.5	395.6	387.4	396.6
46.5°	664.6	687.6	683.2	651.6	599.7	521.6	452.9	410.4	386.7	378.3	387.4
47°	650.1	672.1	667.1	636.7	585.8	510.0	443.0	401.3	377.8	369.6	378.8
47.5°	635.2	656.2	651.6	621.7	572.5	498.6	433.4	392.4	368.6	360.7	369.1
48°	620.2	640.7	636.5	607.1	559.4	487.5	423.5	383.5	360.2	352.1	360.2
48.5°	605.8	626.4	621.7	593.0	546.5	476.4	414.1	374.3	351.3	343.2	351.3
49°	592.3	611.5	607.1	578.9	533.4	465.0	404.5	365.7	342.5	334.8	342.9
49.5°	578.2	596.7	592.5	564.8	520.6	454.4	394.8	356.8	333.8	326.1	333.8
50°	564.1	582.4	577.9	551.2	508.0	443.3	385.4	347.9	325.2	317.7	325.4
50.5°	551.2	568.8	563.8	537.2	495.4	432.4	376.1	339.0	316.3	309.3	316.8
51°	537.9	555.2	549.8	524.1	483.3	421.8	366.7	330.3	307.9	300.7	308.4
51.5°	524.6	541.1	536.4	510.7	471.2	411.1	357.5	321.7	299.7	292.8	300.0
52°	512.2	528.3	523.3	497.9	458.8	400.8	348.4	313.3	291.1	284.9	291.8
52.5°	500.1	515.7	510.0	485.3	447.0	390.1	339.2	304.7	283.4	276.7	283.4
53°	487.2	502.3	497.1	472.4	435.4	380.0	330.3	296.3	279.2	268.8	275.5
53.5°	474.9	490.0	484.5	460.1	423.7	369.9	321.2	288.1	274.8	261.4	267.6
54°	463.8	477.9	471.9	448.0	412.1	359.8	312.6	279.9	269.8	257.0	259.9
54.5°	452.2	466.0	459.8	436.1	401.0	349.9	303.9	272.0	264.4	252.3	252.3
55°	440.3	454.1	448.0	424.2	390.1	340.2	295.5	264.4	259.2	247.3	244.9
55.5°	429.9	442.5	436.3	412.9	379.3	330.6	287.1	256.5	253.5	242.1	237.7
56°	418.8	431.2	424.7	401.3	368.4	321.2	278.7	250.8	248.1	237.0	230.5
56.5°	407.7	420.0	413.6	390.4	357.8	311.8	270.3	246.3	242.6	231.5	223.6
57°	397.1	408.9	402.5	379.5	347.6	302.7	262.4	241.4	237.0	226.3	216.9
57.5°	386.7	398.5	391.6	368.9	337.5	293.5	254.5	236.5	231.5	221.1	211.0
58°	375.6	387.9	381.0	358.3	327.6	284.9	246.8	231.3	226.3	215.9	205.1
58.5°	365.4	377.3	370.6	348.1	317.7	276.2	239.4	226.1	220.9	210.8	199.1
59°	354.8	367.2	360.2	338.0	308.1	267.6	232.0	220.6	215.5	205.8	193.2
59.5°	344.4	356.8	350.4	328.1	298.7	259.2	224.6	215.5	210.0	200.9	187.3
60°	334.8	346.7	340.5	318.2	289.6	251.0	217.4	210.5	204.6	195.7	182.8
60.5°	323.9	336.8	330.8	308.9	280.4	243.1	211.0	205.3	199.1	190.7	178.4
61°	314.5	326.1	321.0	299.5	271.8	235.2	204.6	200.1	193.7	185.6	173.9
61.5°	304.7	317.0	312.1	290.6	262.9	227.3	198.2	195.2	188.3	180.6	169.5
62°	295.3	307.4	302.9	281.4	254.5	220.1	191.7	190.0	182.6	175.7	165.1
62.5°	285.6	297.7	293.8	272.8	246.1	213.0	185.3	184.6	176.9	170.5	160.6
63°	276.0	288.6	284.9	263.9	237.9	206.1	179.1	179.4	171.2	165.3	156.2
63.5°	266.8	279.2	276.2	255.5	229.8	198.9	173.7	173.9	165.5	160.4	151.7
64°	257.5	270.3	267.8	247.1	221.9	192.0	168.5	168.8	159.9	155.2	147.8
64.5°	248.8	261.2	259.4	239.2	214.7	184.8	164.1	163.6	154.2	150.0	143.6
65°	239.9	252.8	251.3	231.3	207.3	178.6	159.9	158.6	148.7	145.0	139.4
65.5°	231.5	243.9	243.1	223.6	199.9	172.2	155.7	153.2	143.3	139.8	135.2
66°	222.6	235.7	235.2	215.9	192.7	165.5	151.2	148.2	137.9	134.9	131.2



TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	198.2	211.0	212.0	194.0	172.0	148.2	138.6	133.2	122.1	120.3	119.1
68°	190.0	203.1	204.6	187.0	165.1	142.6	134.4	128.2	117.1	115.4	115.1
68.5°	182.1	195.4	197.4	179.9	158.9	137.1	130.5	123.5	112.4	110.9	111.2
69°	174.7	187.8	190.3	173.2	152.7	131.9	126.3	118.6	107.7	106.2	107.2
69.5°	167.0	180.1	182.8	166.5	146.5	126.8	122.1	113.9	103.5	102.0	103.3
70°	159.6	173.0	176.2	160.4	140.6	121.8	118.1	109.2	99.1	97.8	99.3
70.5°	152.2	165.8	169.5	153.7	134.7	117.1	114.2	105.0	94.9	93.6	95.4
71°	145.0	158.6	162.8	147.8	129.2	112.4	110.2	100.6	90.9	89.7	91.7
71.5°	138.1	151.7	155.9	141.6	123.5	108.0	106.2	96.4	87.0	85.7	87.7
72°	131.4	144.8	149.7	135.6	118.4	103.5	102.3	92.4	83.0	81.8	84.0
72.5°	124.5	138.4	143.3	130.0	112.9	99.3	98.3	88.5	79.1	78.1	80.3
73°	117.9	131.9	137.1	124.0	108.0	95.4	94.6	84.5	75.4	74.4	76.6
73.5°	111.4	125.3	131.0	118.6	102.8	91.2	90.7	80.8	71.7	70.7	72.9
74°	105.0	119.3	125.0	113.4	98.1	87.2	87.0	77.1	67.9	67.0	69.4
74.5°	98.8	113.2	119.3	108.0	93.4	83.5	83.5	73.4	64.5	63.5	66.2
75°	92.9	107.2	113.4	102.8	88.9	79.8	79.6	69.9	60.8	59.8	62.8
75.5°	87.2	101.3	107.7	97.8	84.5	76.1	76.1	66.5	57.3	56.3	59.5
76°	81.5	95.9	102.3	92.9	80.3	72.6	72.4	62.8	54.1	52.9	56.3
76.5°	76.1	90.2	96.9	88.2	76.1	69.2	69.2	59.3	50.7	49.7	53.1
77°	70.4	85.0	91.7	83.8	72.1	66.0	65.7	56.1	47.4	46.2	49.9
77.5°	65.0	80.1	86.7	79.1	67.9	62.8	62.5	52.9	44.2	43.0	46.9
78°	59.8	74.9	82.0	74.6	64.2	59.5	59.1	49.4	41.0	39.8	43.7
78.5°	54.4	69.7	77.1	70.2	60.3	56.6	56.1	46.2	37.8	36.6	40.8
79°	49.4	64.7	72.1	66.0	56.8	53.9	52.9	43.0	34.8	33.6	37.8
79.5°	44.5	60.0	67.5	61.8	53.1	50.9	49.7	40.0	31.9	30.6	34.8
80°	39.8	55.3	62.8	57.8	49.7	48.2	46.7	36.8	28.9	27.7	32.1
80.5°	35.1	50.7	58.6	53.9	46.5	45.5	43.7	33.9	25.9	25.0	29.4
81°	30.6	46.5	54.4	50.2	43.2	42.7	40.8	30.9	23.2	22.5	26.9
81.5°	26.2	42.3	49.9	46.5	40.3	40.0	38.1	28.2	20.5	20.0	24.2
82°	21.7	38.3	46.0	43.0	37.3	37.3	35.1	25.2	17.8	17.5	22.0
82.5°	17.8	34.3	42.3	39.5	34.3	34.6	32.4	23.0	15.1	15.1	19.8
83°	13.8	30.6	38.5	36.3	31.6	32.1	29.6	20.5	12.4	12.6	17.5
83.5°	10.1	27.2	35.1	33.1	28.9	29.6	27.2	18.0	9.9	10.9	15.3
84°	8.9	24.0	31.6	29.9	26.4	26.9	24.7	15.8	7.9	9.4	13.1
84.5°	7.4	21.2	28.4	26.9	24.0	24.7	22.5	13.3	6.4	8.2	11.1
85°	5.9	18.8	25.2	24.0	21.7	22.2	20.0	11.9	5.7	6.9	9.1
85.5°	4.4	16.3	22.2	21.2	19.3	20.0	17.8	10.4	4.7	5.7	7.2
86°	3.2	14.1	19.3	18.5	17.0	17.5	15.6	8.9	4.0	4.4	5.4
86.5°	2.5	11.9	16.3	15.8	14.6	15.1	13.1	7.4	3.2	3.5	3.5
87°	1.7	9.6	13.6	13.3	12.4	12.8	11.1	6.2	2.5	2.2	1.7
87.5°	1.2	7.4	10.9	10.9	10.4	10.6	8.9	4.7	1.5	1.2	0.5
88°	0.5	5.4	8.4	8.6	8.4	8.6	6.9	3.5	0.7	0.5	0.2
88.5°	0.2	3.5	6.4	6.7	6.4	6.4	4.9	2.0	0.2	0.2	0.0



TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	0.2	0.7	1.2	1.0	0.5	0.2	0.0	0.2	0.0



TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4
0.5°	1334.0	1333.0	1337.5	1342.1	1346.1	1348.8
1°	1328.6	1330.8	1338.7	1346.6	1353.0	1357.5
1.5°	1322.9	1328.3	1339.4	1350.5	1359.7	1365.6
2°	1316.9	1325.1	1339.9	1354.5	1366.4	1373.5
2.5°	1310.8	1322.4	1340.4	1358.2	1372.3	1381.2
3°	1304.6	1319.2	1340.4	1361.4	1378.2	1388.3
3.5°	1297.9	1315.7	1340.4	1364.6	1383.9	1395.5
4°	1291.2	1312.0	1339.9	1367.3	1389.1	1402.4
4.5°	1284.6	1307.8	1339.2	1369.8	1394.3	1408.9
5°	1277.2	1303.6	1338.4	1372.0	1399.0	1415.3
5.5°	1270.0	1299.4	1337.2	1374.0	1403.7	1421.0
6°	1262.6	1294.7	1336.0	1375.5	1407.6	1426.6
6.5°	1255.2	1289.8	1334.0	1377.0	1411.6	1431.8
7°	1247.3	1284.8	1332.3	1378.0	1414.8	1436.8
7.5°	1239.4	1279.4	1330.0	1378.7	1418.0	1441.5
8°	1231.2	1274.0	1327.3	1379.2	1420.7	1445.7
8.5°	1222.8	1268.0	1324.6	1379.2	1423.2	1449.4
9°	1214.4	1262.3	1321.6	1379.2	1425.4	1453.1
9.5°	1206.0	1256.2	1318.4	1378.7	1427.1	1456.3
10°	1197.4	1250.0	1315.0	1377.7	1428.6	1459.3
10.5°	1188.5	1243.3	1311.3	1376.7	1429.9	1461.7
11°	1179.3	1236.9	1307.1	1375.3	1430.6	1463.7
11.5°	1170.2	1229.7	1302.6	1373.5	1430.8	1465.4
12°	1161.0	1222.8	1298.2	1371.3	1430.8	1466.7
12.5°	1151.6	1215.4	1293.2	1368.8	1430.4	1467.7
13°	1142.5	1208.0	1288.3	1366.1	1429.6	1468.2
13.5°	1133.1	1200.3	1283.1	1363.1	1428.4	1468.4
14°	<i>1123.2</i>	<i>1192.9</i>	<i>1277.7</i>	<i>1359.9</i>	<i>1426.9</i>	<i>1467.9</i>
14.5°	1113.3	1185.0	1272.0	1356.5	1425.2	1467.4
15°	1103.7	1177.1	1266.3	1352.5	1422.9	1466.4
15.5°	1094.1	1169.2	1260.4	1348.3	1420.5	1464.9
16°	1084.2	1161.5	1254.4	1344.1	1417.8	1463.5
16.5°	1074.3	1153.4	1248.3	1339.9	1414.8	1461.2
17°	1064.9	1145.5	1242.3	1335.2	1411.6	1459.0
17.5°	1054.8	1137.6	1236.4	1330.5	1408.1	1456.3
18°	1044.7	1129.4	1230.5	1326.6	1404.4	1453.6
18.5°	1034.5	1121.3	1224.0	1322.4	1401.4	1450.4
19°	1024.6	1112.9	1218.1	1317.9	1398.7	1447.6
19.5°	1014.8	1104.7	1211.2	1313.0	1395.8	1445.4
20°	1004.9	1095.8	1204.0	1307.8	1392.1	1443.0
20.5°	994.7	1086.9	1196.9	1302.4	1388.1	1440.2
21°	984.4	1077.5	1189.0	1296.2	1383.7	1437.0

TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	953.0	1048.6	1161.8	1271.7	1364.1	1423.4
23°	942.1	1038.5	1151.6	1261.6	1355.2	1415.8
23.5°	931.5	1027.9	1140.8	1251.2	1345.6	1407.1
24°	920.6	1016.7	1129.7	1240.1	1335.2	1398.0
24.5°	910.0	1005.6	1117.5	1228.0	1324.4	1387.9
25°	898.9	994.3	1105.9	1215.9	1312.5	1376.2
25.5°	887.8	982.6	1093.8	1203.8	1299.6	1364.4
26°	876.4	970.8	1081.2	1190.9	1286.8	1352.5
26.5°	865.0	959.2	1068.4	1177.3	1273.5	1339.4
27°	853.9	947.3	1055.5	1164.0	1259.1	1325.6
27.5°	842.3	935.0	1042.4	1149.7	1244.1	1311.0
28°	830.7	922.4	1029.1	1134.8	1229.0	1297.2
28.5°	819.1	910.5	1015.5	1120.3	1213.9	1281.6
29°	807.5	897.6	1001.7	1105.4	1198.3	1266.0
29.5°	795.8	885.3	988.1	1089.6	1182.0	1250.2
30°	784.0	872.4	974.2	1074.3	1166.2	1234.4
30.5°	772.1	859.8	959.7	1058.2	1149.2	1217.4
31°	760.3	847.0	945.6	1042.4	1132.6	1200.6
31.5°	748.7	834.1	931.0	1026.6	1115.6	1183.5
32°	737.0	820.8	916.2	1009.8	1098.5	1166.2
32.5°	724.9	808.2	901.8	993.8	1081.0	1148.7
33°	713.3	794.9	887.0	977.5	1064.2	1131.4
33.5°	701.7	782.3	872.4	961.1	1046.9	1113.8
34°	690.3	768.9	857.1	944.8	1029.6	1096.1
34.5°	678.5	756.1	842.3	928.0	1012.0	1077.5
35°	666.6	742.7	827.2	911.7	994.7	1059.7
35.5°	655.0	730.1	812.6	895.4	977.2	1041.9
36°	643.6	717.5	797.6	879.1	960.4	1024.2
36.5°	632.0	704.2	782.8	863.1	942.9	1005.9
37°	620.7	691.1	768.2	846.7	925.8	987.3
37.5°	609.1	678.5	753.1	830.7	908.0	969.8
38°	597.9	665.6	738.5	814.6	891.0	951.8
38.5°	586.6	652.8	723.9	799.1	874.2	933.7
39°	575.7	639.9	709.4	783.2	856.9	915.4
39.5°	564.3	627.3	695.3	767.7	840.6	898.1
40°	553.0	614.7	680.5	751.9	823.5	880.4
40.5°	542.1	602.1	666.9	736.8	807.2	862.3
41°	531.2	589.5	652.8	721.2	789.9	844.8
41.5°	520.4	576.9	639.0	706.7	774.4	827.7
42°	509.5	564.8	625.1	691.8	758.5	810.7
42.5°	498.9	552.7	611.8	677.2	742.5	793.4
43°	488.0	540.6	598.4	662.4	726.2	776.8
43.5°	477.6	528.8	585.1	648.3	711.1	760.5

TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	446.2	493.4	546.5	606.6	665.1	711.8
45.5°	435.9	482.1	534.2	593.0	651.1	696.3
46°	426.0	470.7	521.8	579.4	636.7	680.5
46.5°	415.8	459.3	509.5	566.6	622.4	664.6
47°	405.5	448.5	497.6	553.5	607.6	650.1
47.5°	395.8	437.3	485.8	540.6	594.0	635.2
48°	386.2	426.5	474.1	527.8	580.6	620.2
48.5°	376.6	415.8	462.5	515.7	567.3	605.8
49°	367.2	405.5	451.2	503.6	553.7	592.3
49.5°	357.5	395.3	440.1	491.7	541.1	578.2
50°	348.1	385.0	429.2	479.3	528.0	564.1
50.5°	339.0	375.1	418.1	468.0	515.4	551.2
51°	329.9	365.2	407.7	456.4	502.8	537.9
51.5°	321.2	355.5	397.1	445.2	491.2	524.6
52°	312.3	346.2	386.9	434.4	479.1	512.2
52.5°	303.7	336.8	376.6	423.0	467.2	500.1
53°	295.0	327.4	366.9	412.4	455.9	487.2
53.5°	286.9	318.2	356.8	401.8	444.5	474.9
54°	278.7	309.3	347.1	391.4	433.1	463.8
54.5°	270.3	300.2	337.3	381.2	422.5	452.2
55°	262.4	291.8	328.4	371.1	411.6	440.3
55.5°	254.7	283.2	319.2	361.2	401.0	429.9
56°	247.1	274.8	310.1	351.6	390.4	418.8
56.5°	239.4	266.6	301.2	342.0	380.5	407.7
57°	232.0	258.4	292.5	332.6	370.4	397.1
57.5°	225.1	250.3	283.6	323.2	360.5	386.7
58°	217.9	242.9	275.2	314.3	351.1	375.6
58.5°	211.3	235.0	266.8	305.4	341.5	365.4
59°	204.8	227.6	258.7	296.7	332.1	354.8
59.5°	198.2	220.1	250.8	287.8	322.7	344.4
60°	191.5	212.7	242.9	279.2	313.3	334.8
60.5°	184.8	205.6	235.0	271.0	304.2	323.9
61°	178.6	198.7	227.6	262.9	295.0	314.5
61.5°	172.5	191.7	219.9	254.7	285.9	304.7
62°	166.8	185.1	212.7	246.8	277.0	295.3
62.5°	161.1	178.6	205.3	238.9	267.8	285.6
63°	155.2	172.2	198.4	231.3	259.2	276.0
63.5°	149.7	165.8	191.2	223.9	250.5	266.8
64°	144.5	159.6	184.6	216.4	242.1	257.5
64.5°	139.4	153.7	177.9	209.0	234.0	248.8
65°	134.4	147.8	171.5	202.1	225.6	239.9
65.5°	129.5	141.8	164.8	194.7	217.7	231.5
66°	124.5	136.4	158.6	187.8	209.5	222.6



TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	111.2	120.3	140.3	167.8	186.8	198.2
68°	107.0	115.4	134.7	161.3	179.4	190.0
68.5°	103.0	110.2	129.0	154.7	172.2	182.1
69°	99.1	105.5	123.5	148.5	165.1	174.7
69.5°	95.1	100.8	118.1	142.3	158.1	167.0
70°	91.7	96.4	112.9	136.4	151.0	159.6
70.5°	88.2	91.9	107.7	130.2	144.3	152.2
71°	85.0	88.9	102.8	124.5	137.6	145.0
71.5°	81.5	84.7	97.8	118.8	131.2	138.1
72°	78.3	80.5	93.1	113.2	125.0	131.4
72.5°	75.1	76.1	88.0	107.7	118.8	124.5
73°	72.1	71.9	83.8	102.3	112.7	117.9
73.5°	68.9	68.2	79.6	97.1	106.7	111.4
74°	66.0	64.5	75.4	91.9	101.1	105.0
74.5°	63.0	61.0	71.2	87.2	95.4	98.8
75°	59.8	57.3	67.2	82.3	90.2	92.9
75.5°	57.1	54.1	63.3	77.6	85.0	87.2
76°	54.1	50.9	59.3	72.6	80.1	81.5
76.5°	51.1	47.7	55.3	67.9	74.9	76.1
77°	48.2	44.7	51.9	63.5	69.9	70.4
77.5°	45.5	41.8	48.2	59.3	64.7	65.0
78°	42.7	39.0	45.0	55.1	60.3	59.8
78.5°	40.0	36.3	41.5	50.9	55.6	54.4
79°	37.3	33.6	38.3	47.2	51.1	49.4
79.5°	34.6	30.9	35.3	43.2	46.9	44.5
80°	31.9	28.4	32.1	39.5	42.7	39.8
80.5°	29.4	25.9	29.4	36.1	39.0	35.1
81°	26.9	23.5	26.7	32.6	35.3	30.6
81.5°	24.5	21.2	23.7	29.4	31.6	26.2
82°	22.0	19.0	21.2	26.2	28.2	21.7
82.5°	19.8	16.8	18.8	23.2	25.2	17.8
83°	17.3	14.6	16.3	20.5	22.0	13.8
83.5°	15.1	12.4	13.8	17.8	19.3	10.1
84°	12.6	10.4	11.6	15.1	16.8	8.9
84.5°	10.4	8.4	9.4	12.6	14.6	7.4
85°	8.2	6.7	7.4	10.1	12.4	5.9
85.5°	6.2	4.9	5.4	8.2	10.1	4.4
86°	4.2	3.2	3.7	6.2	8.2	3.2
86.5°	2.2	1.2	1.7	4.2	6.4	2.5
87°	0.7	0.2	0.5	2.2	4.4	1.7
87.5°	0.2	0.0	0.2	0.5	2.5	1.2
88°	0.0	0.0	0.0	0.0	0.5	0.5
88.5°	0.0	0.0	0.0	0.0	0.2	0.2



TEST NUMBER: P775986

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.2	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°	1433.3	1442.2	1402.4	1319.4	1204.0	1081.7	975.2	901.1	866.5	864.3	899.6
22°	1429.1	1438.5	1398.2	1314.0	1196.6	1072.6	964.4	890.2	855.6	853.2	888.5



44°	743.7	769.4	764.5	728.4	667.6	579.4	502.6	456.1	430.9	423.3	433.9
44.5°	727.4	752.1	747.7	712.8	653.8	567.8	492.7	447.0	422.0	414.1	424.7



66.5°	214.5	227.3	227.3	208.5	185.3	159.6	147.0	143.3	132.4	130.0	127.0
67°	206.1	218.9	219.7	200.9	178.6	153.9	142.8	138.1	127.2	125.0	123.0



89°	0.0	1.5	4.4	4.7	4.4	4.4	3.0	1.0	0.0	0.2	0.0
89.5°	0.0	0.2	2.5	2.7	2.7	2.5	1.5	0.2	0.0	0.2	0.0

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21.5°	974.0	1068.1	1180.8	1289.0	1378.5	1433.3
22°	963.6	1058.7	1171.7	1281.1	1371.8	1429.1



44°	467.0	516.4	572.0	634.0	696.0	743.7
44.5°	456.6	504.8	559.1	620.4	681.0	727.4



66.5°	120.1	131.0	152.4	181.1	201.9	214.5
67°	115.6	125.5	146.3	174.2	194.2	206.1

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Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.2	0.0
89.5°	0.0	0.0	0.0	0.0	0.2	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)