

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: P775962

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B054)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K
Description: 4 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2453.4 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.01 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

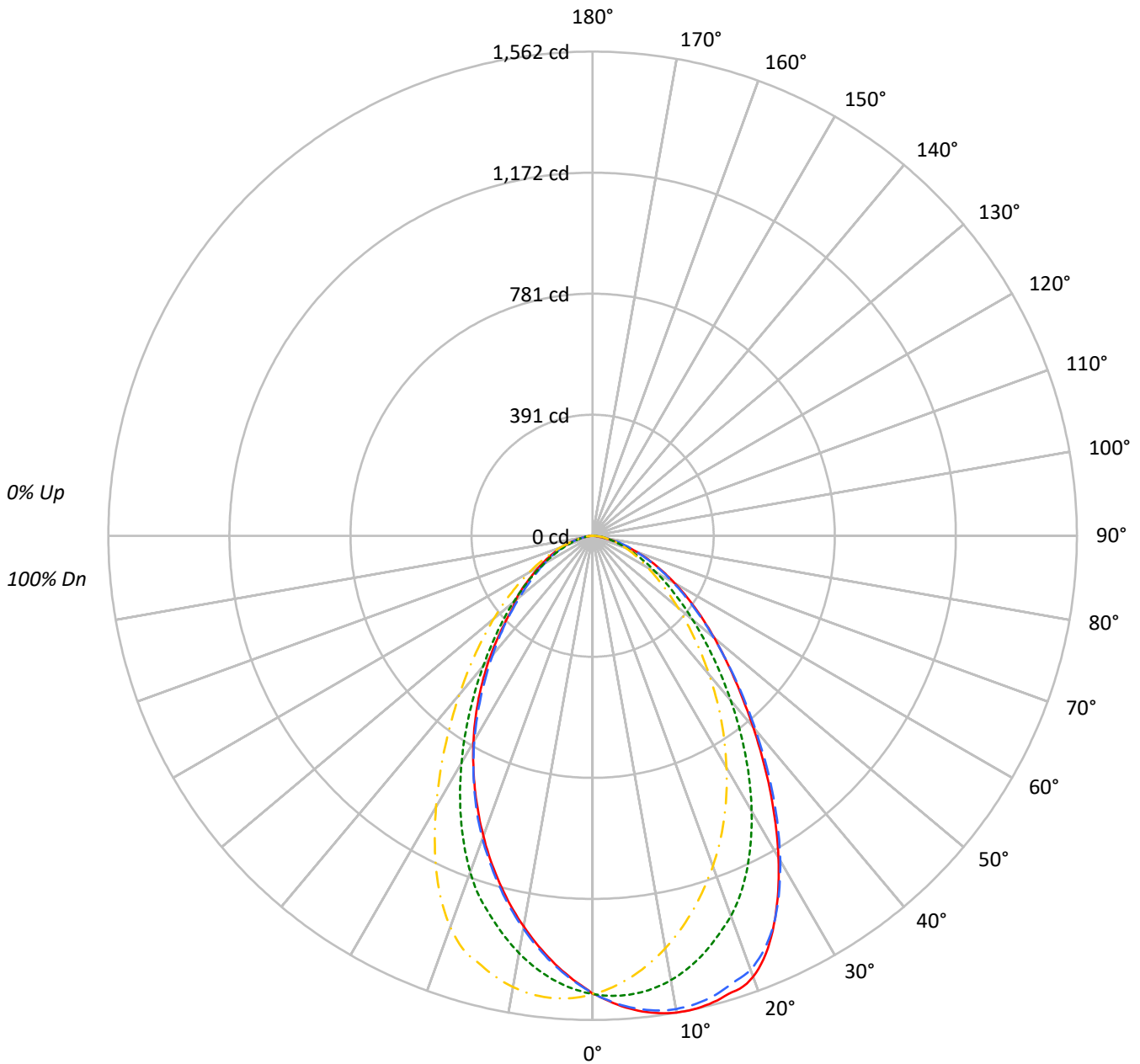
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775962

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Luminous Intensity Polar Plot





TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	38	49	43	38	48	42	38	36
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	185918	185918	185918	185918
5°	193917	187512	175233	181726
10°	199584	186000	163573	174691
15°	202183	181441	151096	165493
20°	202725	174788	137985	154578
25°	192154	163952	124793	139596
30°	174165	149039	111765	122911
35°	153050	131834	98449	105992
40°	132250	113915	84886	90242
45°	114583	97087	71708	76780
50°	100224	82407	63318	65334
55°	88072	70080	56279	55270
60°	77045	59577	49585	46313
65°	66734	50624	43685	38534
70°	54532	42720	36906	31718
75°	40845	36225	29856	26306
80°	24496	31599	21235	20873
85°	9386	29312	7653	12274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 117608 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	5.6
10°-20°	377.7	15.4
20°-30°	511.6	20.9
30°-40°	497.3	20.3
40°-50°	393.7	16.0
50°-60°	275.7	11.2
60°-70°	167.1	6.8
70°-80°	76.6	3.1
80°-90°	15.6	0.6
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°	1027.4	41.9
0°-40°	1524.7	62.1
0°-60°	2194.0	89.4
0°-90°	2453.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1477	1477	1477	1477	1477	
5°	1535	1484	1387	1438	1535	147
15°	1552	1393	1160	1270	1552	438
25°	1384	1181	899	1005	1384	632
35°	996	858	641	690	996	622
45°	644	546	403	431	644	499
55°	401	319	256	252	401	360
65°	224	170	147	129	224	222
75°	84	74	61	54	84	91
85°	6	20	5	8	6	11
90°	0	2	0	0	0	



TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
0.5°	1481.8	1482.6	1482.1	1481.3	1480.6	1477.8	1475.8	1475.1	1466.8	1466.5	1468.0
1°	1488.8	1489.8	1489.1	1486.1	1482.3	1476.6	1471.8	1468.5	1458.8	1458.8	1460.8
1.5°	1495.6	1496.9	1494.9	1490.1	1483.8	1475.3	1467.5	1462.3	1450.5	1450.0	1453.0
2°	1502.1	1503.9	1500.6	1494.4	1484.8	1473.3	1463.0	1455.3	1442.2	1441.2	1444.7
2.5°	1508.4	1510.7	1506.4	1498.1	1485.8	1471.3	1458.0	1448.5	1433.4	1432.4	1436.4
3°	1514.4	1516.7	1511.9	1501.4	1486.1	1468.5	1452.7	1440.7	1424.4	1423.4	1428.2
3.5°	1520.2	1522.7	1516.7	1504.4	1486.3	1465.8	1447.2	1433.4	1415.4	1413.9	1419.4
4°	1525.4	1528.2	1521.4	1506.9	1485.8	1462.5	1441.5	1425.4	1406.4	1404.4	1410.6
4.5°	1530.5	1533.5	1525.7	1509.1	1485.3	1459.3	1435.4	1417.1	1396.6	1394.6	1401.4
5°	1535.0	1538.7	1529.7	1511.2	1484.3	1455.3	1428.9	1408.9	1387.1	1384.6	1392.3
5.5°	1539.2	1543.5	1533.5	1512.7	1483.1	1451.2	1422.4	1400.4	1376.8	1374.3	1382.3
6°	1543.2	1547.8	1536.7	1514.2	1481.3	1446.5	1415.1	1391.3	1367.0	1363.7	1372.8
6.5°	1546.8	1551.8	1539.7	1515.2	1479.3	1442.0	1408.1	1382.3	1356.7	1353.5	1362.5
7°	1550.0	1555.3	1542.2	1515.7	1477.1	1436.7	1400.6	1373.3	1346.2	1342.7	1352.0
7.5°	1553.0	1558.5	1544.5	1515.7	1474.1	1431.4	1393.1	1363.7	1335.7	1331.7	1341.7
8°	1555.3	1561.3	1546.5	1515.7	1471.0	1425.7	1385.1	1354.0	1324.9	1320.4	1331.2
8.5°	1557.5	1563.8	1548.0	1515.2	1467.8	1419.9	1376.8	1343.9	1313.9	1309.6	1320.6
9°	1559.3	1566.1	1549.3	1514.2	1464.0	1413.4	1368.3	1334.2	1302.8	1298.1	1309.6
9.5°	1560.8	1567.8	1549.8	1512.7	1460.0	1406.9	1359.7	1323.9	1291.3	1286.5	1298.3
10°	1561.8	1569.1	1550.3	1510.9	1455.5	1399.8	1351.0	1313.9	1280.0	1275.0	1287.0
10.5°	1562.3	1570.1	1550.0	1508.9	1450.7	1392.8	1341.7	1303.1	1268.5	1263.2	1275.8
11°	1562.5	1570.6	1549.8	1506.6	1445.5	1385.3	1332.2	1292.3	1257.0	1251.4	1264.2
11.5°	1562.5	1570.8	1549.0	1503.6	1440.0	1377.8	1322.9	1281.5	1245.2	1239.4	1252.4
12°	1562.0	1570.8	1547.8	1500.6	1434.2	1369.8	1313.1	1270.7	1233.4	1227.4	1240.4
12.5°	1561.3	1570.3	1546.3	1497.1	1427.9	1361.2	1303.1	1259.5	1221.4	1214.8	1228.6
13°	1560.0	1569.3	1544.2	1493.4	1421.7	1353.0	1293.1	1248.2	1209.3	1202.8	1216.8
13.5°	1558.3	1568.3	1542.2	1489.1	1414.9	1344.4	1282.8	1236.7	1197.0	1190.3	1204.6
14°	1556.5	1566.3	1539.5	1484.1	1407.9	1335.2	1272.0	1225.1	1184.8	1177.5	1192.3
14.5°	1554.3	1564.3	1536.5	1479.1	1400.4	1325.9	1261.2	1213.3	1172.2	1165.2	1179.7
15°	1551.8	1562.0	1533.0	1473.8	1392.6	1316.1	1250.4	1201.6	1159.7	1152.2	1167.2
15.5°	1548.5	1559.0	1529.2	1468.3	1384.8	1306.6	1239.4	1189.5	1147.2	1139.6	1154.4
16°	1545.0	1556.0	1524.9	1462.3	1376.3	1296.6	1227.9	1177.5	1134.6	1126.8	1141.9
16.5°	1542.2	1552.5	1520.4	1456.0	1367.8	1286.5	1216.6	1165.2	1121.8	1114.1	1129.1
17°	1540.0	1549.3	1515.9	1449.5	1358.7	1276.0	1205.3	1153.2	1109.0	1100.5	1116.6
17.5°	1538.0	1547.0	1511.2	1442.2	1350.0	1265.5	1193.5	1140.6	1096.0	1087.5	1103.8
18°	1536.0	1545.0	1507.4	1435.7	1340.9	1254.7	1181.5	1128.1	1083.0	1074.5	1090.7
18.5°	1532.2	1542.7	1503.9	1429.2	1332.2	1244.2	1169.7	1115.6	1069.9	1061.4	1078.0
19°	1527.4	1539.5	1500.4	1423.2	1323.4	1233.4	1157.7	1103.0	1056.9	1048.4	1065.7
19.5°	1520.9	1534.5	1495.9	1416.9	1314.6	1222.9	1146.2	1090.5	1043.6	1035.3	1052.9
20°	1513.7	1528.5	1489.8	1409.9	1305.1	1211.6	1133.6	1078.0	1030.3	1022.1	1039.9
20.5°	1505.4	1521.2	1482.6	1401.6	1294.6	1200.6	1121.8	1064.9	1017.0	1008.8	1026.6
21°	1495.6	1513.2	1474.1	1393.1	1283.3	1188.3	1109.0	1051.9	1004.3	995.7	1013.0



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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°	1460.0	1482.6	1445.0	1361.0	1248.2	1150.9	1071.2	1013.0	964.4	956.1	972.7
23°	1446.0	1470.3	1433.9	1349.7	1235.1	1137.9	1057.9	999.7	951.1	943.1	958.9
23.5°	1431.4	1457.5	1421.9	1337.7	1222.4	1124.8	1044.9	986.7	938.3	929.8	944.8
24°	1416.4	1443.7	1409.6	1324.9	1208.8	1110.8	1031.3	973.7	925.0	916.8	931.1
24.5°	1400.4	1428.9	1396.1	1311.4	1195.0	1097.0	1017.8	960.1	911.8	903.5	917.3
25°	1383.8	1413.4	1382.1	1297.6	1180.7	1083.0	1003.8	946.9	898.7	890.4	903.5
25.5°	1367.0	1397.1	1367.0	1283.5	1166.5	1068.7	990.2	933.6	885.7	876.9	889.2
26°	1349.7	1380.5	1351.7	1268.7	1151.9	1054.4	976.7	920.3	872.9	863.4	875.2
26.5°	1331.7	1363.7	1335.9	1253.9	1136.9	1039.6	962.6	906.7	859.6	850.3	861.1
27°	1313.9	1346.0	1319.4	1238.4	1121.3	1024.8	948.6	893.2	846.8	837.1	847.1
27.5°	1295.6	1327.9	1302.3	1222.6	1106.0	1010.3	934.3	879.9	833.5	823.8	832.8
28°	1276.3	1309.1	1284.3	1206.1	1090.2	995.7	920.3	866.6	820.8	810.5	818.5
28.5°	1257.2	1290.0	1265.7	1189.5	1074.7	980.4	906.2	852.8	808.0	797.2	804.5
29°	1237.9	1271.0	1247.7	1172.7	1058.4	965.2	892.0	839.3	795.2	783.9	790.4
29.5°	1218.1	1251.7	1229.4	1155.2	1042.1	950.4	877.9	826.0	782.2	770.9	776.4
30°	1198.5	1231.6	1210.3	1138.1	1025.6	935.1	863.4	812.7	769.1	757.6	762.1
30.5°	1178.5	1211.8	1190.8	1120.3	1009.0	919.5	849.1	799.2	756.1	744.5	748.3
31°	1158.2	1191.5	1171.2	1102.0	993.0	904.5	835.0	785.7	743.3	731.3	734.5
31.5°	1138.4	1171.0	1151.7	1084.0	975.9	888.9	820.8	772.4	730.5	718.0	721.0
32°	1117.8	1150.2	1131.6	1065.2	959.1	873.9	806.7	759.1	717.7	705.2	707.2
32.5°	1097.3	1129.4	1111.6	1046.6	942.3	858.6	792.2	745.8	704.7	692.2	693.2
33°	1077.0	1108.8	1091.8	1028.1	925.3	843.1	778.1	732.8	691.9	679.1	679.4
33.5°	1056.4	1088.2	1072.4	1009.3	908.7	827.8	764.1	719.0	679.1	666.1	666.3
34°	1036.3	1067.4	1052.1	990.2	891.7	812.0	750.1	705.9	666.3	653.0	652.5
34.5°	1016.3	1046.4	1031.8	971.4	874.7	796.7	736.0	692.9	653.3	640.3	639.3
35°	996.2	1025.8	1011.5	952.6	858.1	781.6	721.7	679.9	640.8	627.7	625.7
35.5°	976.2	1005.5	991.5	934.1	841.1	766.4	708.2	666.6	628.2	615.2	612.9
36°	955.9	985.2	971.7	915.5	824.3	751.1	694.4	653.8	615.4	602.7	599.9
36.5°	936.6	965.2	951.9	896.7	807.2	735.8	680.4	641.0	602.9	590.1	587.1
37°	916.8	944.6	932.1	878.7	791.2	721.2	666.3	628.2	590.1	577.6	574.3
37.5°	897.7	924.5	912.8	860.4	774.1	705.9	652.5	615.4	578.1	565.6	561.8
38°	878.4	905.0	892.7	841.6	758.1	691.2	639.3	603.2	565.6	553.3	549.3
38.5°	859.9	885.4	873.7	824.0	741.8	676.4	625.2	590.4	553.3	541.0	537.5
39°	841.3	866.1	854.3	805.7	725.7	662.1	611.7	578.1	541.2	529.0	525.2
39.5°	823.3	847.3	836.3	788.7	709.2	647.3	598.1	565.6	529.0	517.2	513.2
40°	805.0	828.8	817.5	770.4	693.4	632.7	585.1	553.3	516.7	505.1	501.4
40.5°	787.7	810.7	799.2	753.8	677.9	617.9	571.8	540.5	504.9	493.4	490.1
41°	770.4	792.2	781.1	736.5	662.1	604.4	559.0	528.5	493.1	481.8	478.6
41.5°	753.1	775.1	763.6	719.5	646.5	589.9	546.3	516.2	481.3	470.3	467.5
42°	736.5	757.6	746.1	702.4	631.7	576.1	533.7	504.6	469.5	459.3	457.0
42.5°	720.5	740.5	729.3	686.9	616.9	562.8	521.2	492.6	458.3	448.5	446.5
43°	704.4	724.2	712.7	670.8	602.2	549.5	509.1	481.1	446.7	437.7	435.7
43.5°	688.9	707.9	695.9	655.1	587.6	536.2	496.9	469.3	435.4	427.4	425.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	643.8	660.8	648.5	608.9	545.5	498.4	461.8	436.5	402.9	398.1	395.3
45.5°	629.2	646.0	633.2	594.1	532.0	486.1	450.7	426.2	392.3	388.8	385.8
46°	615.2	631.5	618.5	579.8	518.7	474.3	439.7	415.9	382.3	379.3	376.3
46.5°	601.4	616.9	603.7	565.6	505.6	462.3	429.2	405.6	372.5	370.0	366.8
47°	587.9	602.7	589.6	551.5	492.6	450.5	418.4	395.6	363.2	361.2	357.5
47.5°	574.8	588.9	575.3	538.0	480.1	439.2	407.9	385.8	354.5	352.7	348.5
48°	561.5	575.1	561.3	523.9	467.5	427.7	397.6	376.3	346.7	344.2	339.9
48.5°	548.5	562.0	548.0	511.2	455.5	416.9	387.3	366.8	339.9	335.9	331.2
49°	536.2	549.0	534.7	498.4	443.7	406.1	377.5	357.7	333.9	327.9	322.9
49.5°	523.9	536.2	521.9	485.8	432.2	395.6	367.5	348.7	328.4	320.4	314.6
50°	511.9	523.9	509.4	473.3	420.9	385.3	358.0	339.9	323.4	313.4	306.6
50.5°	500.1	511.4	496.6	461.0	409.6	375.0	348.7	331.4	318.4	306.3	298.3
51°	488.3	499.4	484.3	449.2	398.6	365.3	339.4	323.1	312.6	300.1	290.8
51.5°	476.8	487.6	472.5	437.7	388.3	355.7	330.7	315.1	305.8	294.3	283.5
52°	465.5	475.8	460.8	425.9	377.8	346.2	321.6	307.3	298.3	287.5	276.0
52.5°	454.5	464.3	449.2	414.9	367.5	336.9	313.1	299.8	291.1	280.8	268.7
53°	443.7	453.2	437.7	404.1	357.5	327.7	304.6	292.8	284.0	274.0	261.7
53.5°	432.7	442.0	426.7	393.1	347.7	318.6	296.3	285.5	276.8	267.2	254.7
54°	422.2	431.2	415.6	382.6	338.2	309.9	288.3	279.0	269.7	260.7	247.9
54.5°	411.6	420.2	404.6	372.3	328.4	301.3	280.3	273.0	263.2	254.2	241.4
55°	401.4	409.9	394.6	362.0	319.4	293.1	272.7	266.7	256.5	248.2	235.1
55.5°	391.1	399.3	384.1	352.2	310.4	284.5	265.2	260.5	250.2	241.4	228.9
56°	381.0	389.1	373.8	342.2	301.6	276.3	257.7	253.9	243.7	235.1	222.9
56.5°	371.3	379.0	363.8	332.7	293.1	268.5	250.4	247.7	237.4	229.4	217.3
57°	361.7	369.3	354.0	323.4	284.3	260.5	243.4	241.4	231.1	223.6	211.8
57.5°	351.7	359.2	344.4	314.1	276.0	252.9	236.7	235.4	225.4	217.6	206.6
58°	342.4	349.5	334.7	305.1	267.7	245.4	230.1	229.4	219.4	212.1	201.1
58.5°	333.2	339.9	325.4	296.1	260.2	238.2	223.6	223.4	213.8	206.6	195.8
59°	323.9	330.9	316.4	287.3	252.2	230.9	217.3	217.6	208.1	201.1	190.3
59.5°	314.9	321.1	307.1	278.8	244.4	223.9	211.6	212.1	202.6	195.5	185.3
60°	306.1	312.6	298.3	270.5	236.7	217.1	205.8	206.6	197.0	190.0	180.2
60.5°	297.3	303.6	289.5	262.0	229.6	210.8	200.1	201.1	191.5	184.8	175.2
61°	288.5	294.8	281.0	254.2	222.4	204.3	194.3	195.5	186.3	179.7	170.2
61.5°	280.0	285.8	272.2	246.2	215.6	197.8	188.5	190.0	181.0	174.5	165.5
62°	271.7	277.8	264.2	238.4	208.8	191.3	183.5	184.8	176.0	169.5	160.7
62.5°	263.7	269.2	256.2	230.9	202.1	185.0	178.2	179.7	170.7	164.5	155.9
63°	255.5	261.0	247.9	223.4	195.3	179.0	173.2	174.5	166.0	159.9	151.2
63.5°	247.4	252.7	240.2	216.1	188.5	173.2	168.2	169.5	160.9	154.9	146.7
64°	239.7	244.7	232.4	208.8	182.0	167.5	163.7	164.5	156.2	150.4	142.1
64.5°	231.9	236.9	224.9	201.8	176.0	161.9	158.9	159.7	151.4	145.7	137.9
65°	224.1	229.4	217.3	194.8	170.0	156.4	154.4	155.2	146.7	141.1	133.4
65.5°	216.3	221.4	209.8	188.3	164.0	151.2	149.7	150.4	141.6	136.6	129.1
66°	208.3	214.1	202.8	181.7	158.2	145.9	145.4	145.7	136.9	132.1	125.1



TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	185.3	191.8	181.7	162.4	141.6	131.4	132.1	132.1	122.6	118.8	112.8
68°	177.7	184.5	175.0	156.4	136.4	126.6	128.1	127.6	118.1	114.6	108.8
68.5°	170.0	177.2	168.5	150.7	131.1	122.1	123.8	123.1	113.6	110.1	105.0
69°	162.7	170.0	162.2	144.6	126.1	117.6	119.8	118.8	109.0	106.0	101.3
69.5°	155.4	162.9	155.9	139.1	121.1	113.6	115.6	114.3	104.5	101.8	97.5
70°	148.2	155.9	149.7	133.4	116.1	109.3	111.8	110.1	100.3	97.8	93.8
70.5°	141.4	149.2	143.6	127.9	111.3	105.3	107.8	106.0	96.3	93.8	90.2
71°	134.4	142.6	137.6	122.6	106.8	101.5	104.0	101.8	92.0	89.5	86.5
71.5°	127.6	135.9	131.9	117.3	102.3	97.8	100.3	97.8	88.0	85.7	83.0
72°	120.8	129.6	126.3	112.3	98.0	94.0	96.5	93.8	84.0	82.0	79.5
72.5°	114.6	123.6	120.6	107.5	93.8	90.5	93.0	89.7	80.0	78.0	76.0
73°	108.3	117.3	115.1	102.8	89.7	86.7	89.2	86.0	76.0	74.5	72.7
73.5°	101.8	111.6	109.8	97.8	85.7	83.5	85.7	82.0	72.2	70.7	69.4
74°	95.8	105.5	104.3	93.3	82.0	80.2	82.2	78.5	68.4	66.9	66.2
74.5°	89.5	99.8	99.3	90.0	78.2	77.0	79.0	74.7	64.9	63.4	62.7
75°	84.0	94.3	94.3	85.7	74.5	73.7	75.5	71.2	61.4	59.9	59.7
75.5°	78.5	88.7	89.0	81.5	70.9	70.7	72.2	67.7	57.9	56.7	56.4
76°	73.0	84.0	84.5	77.0	67.7	67.7	68.9	64.2	54.4	53.1	53.4
76.5°	67.4	79.0	80.0	72.7	64.2	64.7	65.7	60.7	50.9	49.9	50.4
77°	62.2	74.0	75.7	68.7	61.2	61.7	62.4	57.4	47.6	46.6	47.4
77.5°	56.9	68.9	71.2	64.9	57.9	58.9	59.2	54.1	44.4	43.6	44.6
78°	51.9	64.2	66.7	61.4	54.9	56.2	56.4	50.9	41.4	40.4	41.9
78.5°	47.1	59.9	62.4	57.9	51.9	53.1	53.1	47.6	38.1	37.4	38.9
79°	42.4	55.4	58.4	54.4	48.9	50.4	50.4	44.4	35.1	34.3	36.1
79.5°	38.1	51.1	54.4	50.9	46.1	47.9	47.4	41.4	32.1	31.6	33.6
80°	33.8	46.9	50.4	47.6	43.6	45.1	44.6	38.4	29.3	28.6	30.8
80.5°	30.1	43.1	46.6	44.6	40.9	42.6	41.9	35.6	26.3	25.8	28.3
81°	26.3	39.4	43.1	41.6	38.4	40.1	39.1	32.6	23.8	23.3	25.8
81.5°	22.8	35.8	39.6	38.6	35.8	37.6	36.3	29.8	21.1	20.8	23.6
82°	19.3	32.3	36.1	35.8	33.3	35.1	33.8	27.1	18.6	18.3	21.3
82.5°	16.0	28.8	32.8	33.1	31.1	32.6	31.1	24.6	15.8	15.8	19.1
83°	13.3	25.6	29.8	30.3	28.8	30.3	28.6	22.1	13.0	13.3	16.8
83.5°	10.8	22.6	26.8	27.8	26.6	28.1	26.3	19.6	10.8	11.3	14.5
84°	8.8	19.3	24.1	25.3	24.3	25.6	24.1	17.0	8.5	9.5	12.5
84.5°	7.5	16.5	21.3	23.1	22.3	23.6	21.8	14.5	6.5	8.0	10.8
85°	6.5	13.8	18.8	20.8	20.3	21.3	19.8	12.5	5.3	6.8	8.8
85.5°	5.3	11.3	16.5	18.6	18.3	19.3	17.5	10.8	4.5	5.5	7.0
86°	4.3	9.0	14.3	16.5	16.3	17.0	15.3	9.3	3.8	4.5	5.0
86.5°	3.5	7.5	12.3	14.3	14.3	14.8	13.3	8.0	3.0	3.3	3.5
87°	3.0	6.0	10.3	12.5	12.5	12.8	11.3	6.5	2.3	2.3	2.0
87.5°	2.3	4.5	8.8	10.8	10.8	10.8	9.3	5.3	1.5	1.3	0.8
88°	1.8	3.0	7.3	9.0	8.8	9.0	7.5	4.0	1.0	0.5	0.3
88.5°	1.3	2.0	5.5	7.3	7.0	7.0	5.8	2.8	0.3	0.3	0.0



TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.5	1.5	2.8	2.3	2.0	1.0	0.3	0.0	0.3	0.0



TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
0.5°	1470.5	1476.1	1478.8	1482.8	1486.6	1481.8
1°	1465.0	1473.1	1479.1	1485.6	1491.9	1488.8
1.5°	1459.0	1469.8	1478.8	1488.3	1496.9	1495.6
2°	1453.0	1466.5	1478.1	1490.6	1501.6	1502.1
2.5°	1446.5	1462.5	1477.3	1492.6	1506.1	1508.4
3°	1439.7	1458.5	1475.8	1494.1	1510.2	1514.4
3.5°	1432.4	1454.0	1474.3	1495.6	1513.9	1520.2
4°	1425.2	1449.2	1472.0	1496.4	1516.9	1525.4
4.5°	1417.6	1444.0	1469.8	1496.9	1519.9	1530.5
5°	1409.6	1438.5	1467.0	1497.1	1522.9	1535.0
5.5°	1401.4	1432.9	1463.8	1496.9	1525.2	1539.2
6°	1393.1	1426.7	1460.5	1496.4	1526.9	1543.2
6.5°	1384.6	1420.2	1456.8	1495.4	1528.5	1546.8
7°	1375.3	1413.4	1452.5	1493.9	1529.7	1550.0
7.5°	1366.3	1406.4	1448.0	1492.1	1530.7	1553.0
8°	1357.0	1399.3	1443.2	1490.1	1531.0	1555.3
8.5°	1347.2	1391.6	1438.0	1487.8	1531.0	1557.5
9°	1337.4	1383.6	1432.4	1485.1	1530.7	1559.3
9.5°	1327.1	1375.3	1426.7	1481.8	1530.2	1560.8
10°	1316.9	1367.0	1420.7	1478.3	1529.2	1561.8
10.5°	1306.3	1358.2	1414.4	1474.6	1528.0	1562.3
11°	1295.8	1349.5	1407.4	1470.3	1526.2	1562.5
11.5°	1285.0	1340.2	1400.1	1465.8	1523.9	1562.5
12°	1274.0	1330.4	1393.1	1461.0	1521.4	1562.0
12.5°	1263.0	1320.9	1385.6	1455.8	1518.7	1561.3
13°	1251.7	1311.1	1377.5	1450.2	1515.7	1560.0
13.5°	1239.9	1301.1	1369.3	1444.7	1512.2	1558.3
14°	1228.1	1290.5	1360.7	1438.2	1508.1	1556.5
14.5°	1216.3	1280.5	1352.7	1431.9	1504.4	1554.3
15°	1205.1	1270.2	1344.2	1425.9	1499.6	1551.8
15.5°	1193.3	1260.2	1336.4	1420.7	1495.9	1548.5
16°	1181.7	1249.9	1328.7	1415.9	1492.9	1545.0
16.5°	1170.0	1239.9	1320.9	1410.4	1489.8	1542.2
17°	1158.2	1229.6	1311.9	1403.9	1486.3	1540.0
17.5°	1146.2	1218.6	1301.6	1395.6	1481.6	1538.0
18°	1134.1	1206.8	1290.5	1386.8	1474.8	1536.0
18.5°	1121.6	1194.5	1278.8	1376.8	1466.8	1532.2
19°	1108.5	1181.2	1266.5	1366.3	1457.8	1527.4
19.5°	1095.3	1168.0	1253.9	1354.7	1448.5	1520.9
20°	1081.7	1154.2	1241.2	1342.7	1437.7	1513.7
20.5°	1067.7	1140.6	1227.4	1330.2	1426.7	1505.4
21°	1053.9	1126.1	1213.3	1316.6	1414.4	1495.6

TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1010.8	1082.2	1170.0	1273.8	1373.3	1460.0
23°	996.2	1067.2	1154.7	1258.7	1358.0	1446.0
23.5°	981.2	1051.9	1138.9	1242.7	1342.2	1431.4
24°	966.4	1036.3	1123.3	1226.6	1325.4	1416.4
24.5°	951.4	1020.8	1107.0	1209.6	1308.6	1400.4
25°	936.6	1005.3	1090.7	1192.5	1290.8	1383.8
25.5°	921.5	989.7	1074.0	1175.2	1273.3	1367.0
26°	906.5	973.9	1057.2	1157.4	1255.0	1349.7
26.5°	891.7	957.9	1040.9	1139.6	1236.9	1331.7
27°	876.7	941.8	1023.6	1121.3	1218.3	1313.9
27.5°	861.6	925.8	1006.5	1103.0	1199.0	1295.6
28°	846.6	909.8	988.7	1084.2	1179.7	1276.3
28.5°	831.8	893.5	971.7	1065.7	1160.9	1257.2
29°	816.7	877.9	954.6	1047.1	1141.9	1237.9
29.5°	801.7	861.9	937.1	1028.1	1122.3	1218.1
30°	786.9	845.8	919.5	1010.3	1102.8	1198.5
30.5°	772.1	829.8	902.0	991.5	1083.2	1178.5
31°	757.3	814.2	884.7	972.7	1064.2	1158.2
31.5°	742.8	798.2	867.6	954.4	1044.9	1138.4
32°	727.8	782.4	850.3	936.1	1025.1	1117.8
32.5°	713.7	766.9	833.3	917.5	1005.8	1097.3
33°	699.2	751.1	816.2	900.2	986.5	1077.0
33.5°	684.6	735.5	799.7	882.2	967.2	1056.4
34°	670.6	720.2	782.9	864.4	948.9	1036.3
34.5°	656.6	704.9	766.6	846.8	929.6	1016.3
35°	642.5	689.9	750.3	829.5	911.0	996.2
35.5°	628.7	674.6	734.0	812.2	892.5	976.2
36°	615.2	660.3	718.7	795.9	874.4	955.9
36.5°	601.7	645.5	702.9	778.4	856.6	936.6
37°	588.1	631.2	688.1	762.3	838.3	916.8
37.5°	575.3	616.7	672.6	746.1	820.8	897.7
38°	562.3	602.9	657.8	730.3	803.2	878.4
38.5°	549.8	589.1	643.0	714.0	785.9	859.9
39°	537.5	575.6	628.7	698.9	769.6	841.3
39.5°	524.7	562.0	614.7	683.6	752.8	823.3
40°	512.4	549.3	600.4	668.6	736.3	805.0
40.5°	500.6	536.2	586.9	653.3	720.2	787.7
41°	488.8	523.9	573.3	639.0	704.4	770.4
41.5°	477.1	511.4	560.3	624.5	688.9	753.1
42°	466.0	499.4	547.3	610.7	673.6	736.5
42.5°	454.8	487.3	534.2	596.9	658.6	720.5
43°	444.0	476.1	521.7	583.4	643.8	704.4
43.5°	433.2	464.3	509.1	569.8	629.5	688.9



TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	402.6	431.4	473.3	531.2	587.9	643.8
45.5°	392.8	420.7	462.0	518.7	574.6	629.2
46°	383.1	410.4	450.5	506.4	561.5	615.2
46.5°	373.5	400.1	439.7	494.4	548.5	601.4
47°	364.0	390.1	428.4	482.3	536.0	587.9
47.5°	355.0	380.3	417.9	470.8	523.4	574.8
48°	346.0	370.8	407.4	459.3	511.4	561.5
48.5°	337.2	361.2	396.8	448.0	499.4	548.5
49°	328.2	352.0	386.8	437.2	487.8	536.2
49.5°	319.6	342.7	376.8	426.4	476.3	523.9
50°	311.4	333.7	366.8	415.4	464.8	511.9
50.5°	303.1	324.9	357.2	404.9	453.7	500.1
51°	295.1	316.1	347.7	394.8	442.7	488.3
51.5°	287.0	307.3	338.4	384.6	432.2	476.8
52°	279.0	299.3	329.2	374.8	421.2	465.5
52.5°	271.2	291.1	320.4	365.0	410.9	454.5
53°	263.7	283.0	311.4	355.2	400.6	443.7
53.5°	256.2	275.0	302.8	346.0	390.3	432.7
54°	248.9	267.0	294.3	336.4	380.3	422.2
54.5°	241.9	259.5	286.0	327.1	370.8	411.6
55°	234.9	251.9	277.8	318.1	360.7	401.4
55.5°	227.9	244.7	269.7	309.4	351.5	391.1
56°	221.4	237.4	261.5	300.6	341.9	381.0
56.5°	215.1	230.4	253.9	292.1	332.7	371.3
57°	208.8	223.1	246.2	283.5	323.4	361.7
57.5°	202.6	216.6	238.7	275.3	314.4	351.7
58°	196.3	209.6	231.4	267.0	305.3	342.4
58.5°	190.0	203.1	224.4	259.2	296.8	333.2
59°	184.3	196.5	217.1	251.2	288.0	323.9
59.5°	178.5	190.3	210.3	243.4	279.8	314.9
60°	173.2	184.0	203.3	235.9	271.2	306.1
60.5°	167.7	178.0	196.8	228.4	263.2	297.3
61°	162.4	172.2	190.0	221.1	254.7	288.5
61.5°	157.2	166.2	183.8	213.8	247.2	280.0
62°	152.2	160.4	177.5	206.6	239.4	271.7
62.5°	147.2	154.9	171.2	199.8	231.6	263.7
63°	142.4	149.7	165.2	192.8	223.9	255.5
63.5°	137.6	144.4	159.4	186.3	216.6	247.4
64°	133.1	139.1	153.4	179.5	209.3	239.7
64.5°	128.9	134.1	147.9	173.0	202.1	231.9
65°	124.6	129.4	142.4	166.7	195.0	224.1
65.5°	120.6	124.3	137.1	160.4	188.3	216.3
66°	116.6	119.6	131.6	154.2	181.5	208.3



TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	105.0	106.3	116.3	136.6	160.9	185.3
68°	101.5	102.0	111.6	131.1	154.4	177.7
68.5°	97.8	98.0	107.0	125.6	147.9	170.0
69°	94.3	94.0	102.5	120.1	141.4	162.7
69.5°	90.7	89.7	97.8	115.1	135.1	155.4
70°	87.2	86.2	93.5	110.1	129.1	148.2
70.5°	84.0	83.0	89.5	105.0	123.1	141.4
71°	80.7	79.5	85.7	100.0	117.1	134.4
71.5°	77.2	76.0	81.7	95.3	111.3	127.6
72°	74.2	72.7	77.7	90.7	105.5	120.8
72.5°	71.2	69.4	73.7	86.2	100.0	114.6
73°	67.7	66.2	70.2	82.0	94.8	108.3
73.5°	64.7	63.2	66.4	77.5	89.0	101.8
74°	61.7	60.2	62.9	73.2	84.2	95.8
74.5°	58.9	57.2	59.7	68.9	79.5	89.5
75°	55.9	54.1	56.4	64.9	74.7	84.0
75.5°	53.1	51.4	53.1	60.9	69.9	78.5
76°	50.4	48.6	50.1	56.9	65.4	73.0
76.5°	47.6	45.9	46.9	53.4	60.9	67.4
77°	44.9	43.4	44.1	49.6	56.7	62.2
77.5°	42.4	40.9	41.1	46.1	52.4	56.9
78°	39.6	38.4	38.4	42.9	48.4	51.9
78.5°	37.1	35.8	35.8	39.4	44.4	47.1
79°	34.6	33.6	33.3	36.3	40.6	42.4
79.5°	32.1	31.1	30.6	33.1	36.9	38.1
80°	29.6	28.8	28.3	30.3	33.3	33.8
80.5°	27.3	26.8	25.8	27.6	29.8	30.1
81°	25.1	24.6	23.8	24.8	26.6	26.3
81.5°	22.8	22.3	21.6	22.1	23.3	22.8
82°	20.6	20.3	19.3	19.8	20.3	19.3
82.5°	18.3	18.3	17.3	17.5	17.3	16.0
83°	16.3	16.3	15.3	15.3	14.5	13.3
83.5°	14.0	14.0	13.3	13.3	12.3	10.8
84°	12.0	12.3	11.5	11.3	10.0	8.8
84.5°	10.0	10.3	9.8	9.5	8.5	7.5
85°	8.0	8.5	8.3	8.0	6.8	6.5
85.5°	6.0	7.0	6.5	6.5	5.3	5.3
86°	4.3	5.3	5.0	5.0	3.8	4.3
86.5°	2.5	3.5	3.3	3.5	2.8	3.5
87°	1.3	1.8	2.0	2.5	2.0	3.0
87.5°	0.3	0.5	0.8	1.3	1.3	2.3
88°	0.0	0.0	0.0	0.3	0.8	1.8
88.5°	0.0	0.0	0.0	0.0	0.3	1.3



TEST NUMBER: P775962

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-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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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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Scaled Data Report





21.5°	1484.3	1503.9	1465.3	1383.1	1272.0	1176.0	1096.8	1039.1	991.0	982.2	1000.0
22°	1472.3	1493.9	1455.5	1372.3	1260.2	1163.7	1084.0	1026.1	977.7	969.2	986.2



44°	673.4	691.7	679.6	638.5	573.6	523.4	485.1	458.3	424.4	417.6	415.4
44.5°	658.3	676.1	664.3	624.0	559.5	510.7	473.3	447.0	413.9	408.1	405.4



66.5°	200.6	206.8	195.5	175.0	152.4	140.9	140.9	141.4	132.1	127.6	120.8
67°	192.8	199.0	188.8	168.7	146.9	136.1	136.4	136.6	127.4	123.3	116.8



89°	0.8	1.5	4.0	5.8	5.3	5.3	4.0	1.8	0.0	0.3	0.0
89.5°	0.3	1.0	2.5	4.3	3.8	3.5	2.3	0.8	0.0	0.3	0.0

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21.5°	1039.9	1111.6	1199.3	1303.1	1401.6	1484.3
22°	1025.6	1097.3	1184.8	1288.8	1387.6	1472.3



44°	422.9	453.0	497.1	556.5	615.2	673.4
44.5°	412.6	442.0	485.3	543.7	601.4	658.3



66.5°	112.6	115.1	126.3	148.2	174.5	200.6
67°	108.8	110.6	121.3	142.4	167.7	192.8

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Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.3	0.8
89.5°	0.0	0.0	0.0	0.0	0.0	0.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)