

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: P775938

Luminaire Tested: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B034)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K
Description: 4 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3044.3 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.14 / 1.22
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

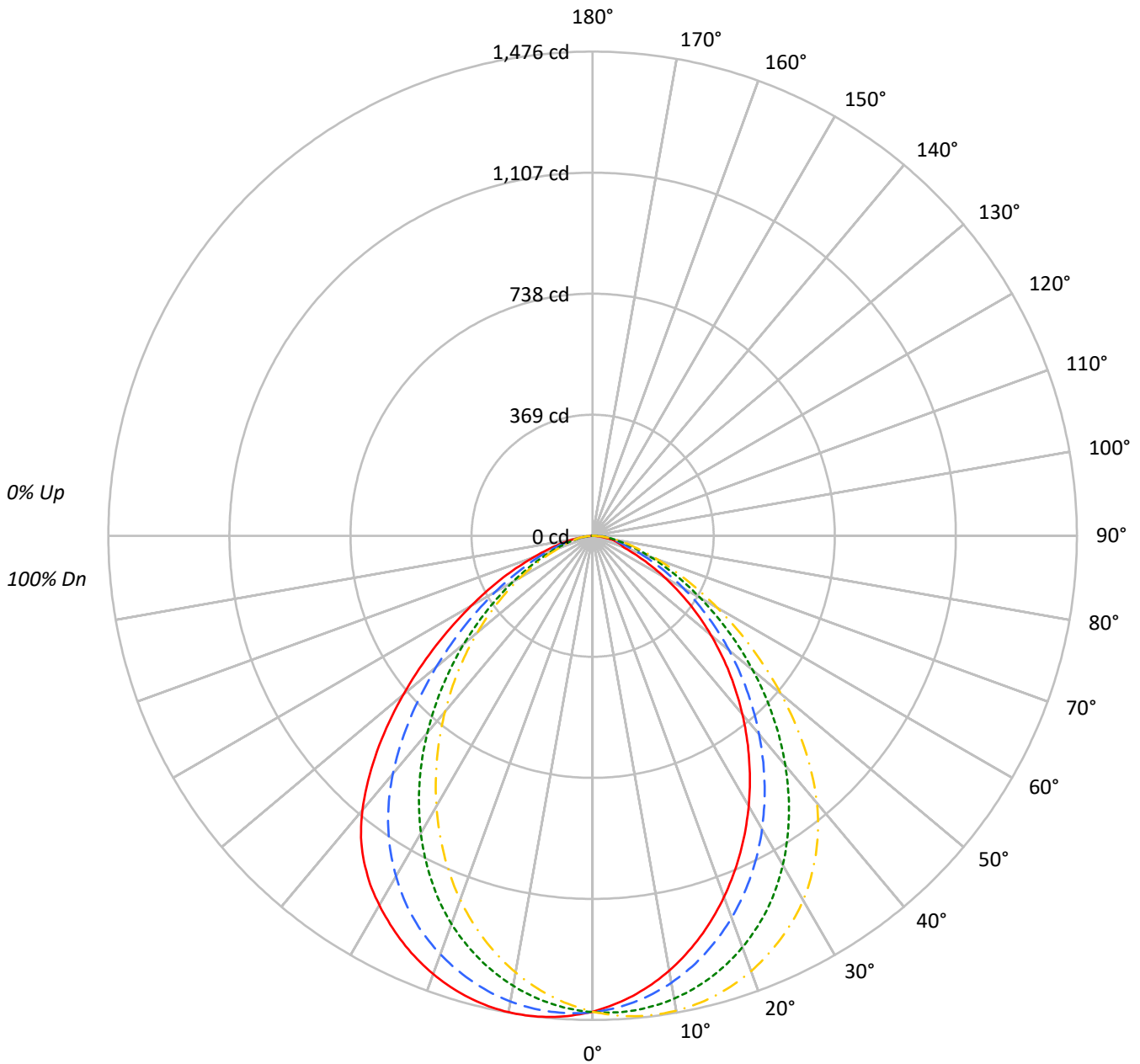
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65				
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	182621	182621	182621	182621
5°	177848	183482	186009	180943
10°	172007	183099	188454	178026
15°	164959	181532	189923	173949
20°	156895	178765	190390	168506
25°	147914	174616	189946	161230
30°	138227	168425	188914	152163
35°	127762	160210	186512	141328
40°	116610	150157	179252	128717
45°	104723	138271	165360	114778
50°	92098	124775	147428	100165
55°	78418	110189	127720	84956
60°	63579	95268	107753	70551
65°	48480	81296	89306	57651
70°	36686	68809	70317	46069
75°	38462	57523	55189	36760
80°	35222	50369	39281	28192
85°	17616	51116	10974	15017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 89.5°
 Luminance: 187480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	4.5
10°-20°	383.8	12.6
20°-30°	558.1	18.3
30°-40°	625.1	20.5
40°-50°	565.5	18.6
50°-60°	410.7	13.5
60°-70°	235.0	7.7
70°-80°	104.3	3.4
80°-90°	25.3	0.8
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°	1078.5	35.4
0°-40°	1703.6	56.0
0°-60°	2679.8	88.0
0°-90°	3044.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1451	1451	1451	1451	1451	
5°	1408	1452	1472	1432	1408	132
15°	1266	1393	1458	1335	1266	355
25°	1065	1258	1368	1161	1065	489
35°	832	1043	1214	920	832	519
45°	588	777	929	645	588	454
55°	357	502	582	387	357	320
65°	163	273	300	194	163	164
75°	79	118	114	76	79	82
85°	12	35	8	10	12	19
90°	0	8	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
0.5°	1447.0	1450.6	1450.6	1450.3	1453.1	1453.1	1453.4	1453.4	1453.4	1455.4	1453.4
1°	1443.2	1447.8	1448.8	1449.8	1453.9	1454.9	1455.9	1456.4	1456.2	1457.4	1454.6
1.5°	1439.6	1445.0	1446.8	1449.0	1454.1	1456.7	1458.5	1459.2	1459.0	1459.5	1455.7
2°	1435.6	1441.7	1444.7	1448.0	1454.6	1457.9	1460.7	1462.0	1461.5	1461.3	1456.4
2.5°	1431.5	1438.4	1442.4	1447.0	1454.6	1459.2	1462.8	1464.3	1463.8	1462.8	1456.9
3°	1426.9	1434.8	1439.9	1445.7	1454.6	1460.2	1464.6	1466.6	1466.1	1464.1	1457.2
3.5°	1422.6	1431.0	1437.1	1444.2	1454.4	1461.3	1466.3	1468.6	1467.9	1465.3	1457.4
4°	1417.8	1427.2	1434.3	1442.4	1453.9	1462.0	1467.9	1470.4	1469.7	1466.1	1457.2
4.5°	1412.9	1423.1	1431.0	1440.6	1453.1	1462.5	1469.1	1472.2	1471.2	1466.9	1456.9
5°	1407.8	1418.5	1427.7	1438.6	1452.4	1462.8	1470.2	1473.7	1472.4	1467.4	1456.7
5.5°	1402.5	1414.2	1424.1	1436.3	1451.3	1462.8	1470.9	1474.7	1473.5	1467.9	1455.9
6°	1396.9	1409.4	1420.3	1433.8	1450.1	1462.5	1471.7	1476.0	1474.5	1467.9	1455.1
6.5°	1391.3	1404.5	1416.5	1431.0	1448.5	1462.3	1472.2	1476.8	1475.2	1467.9	1454.1
7°	1385.4	1399.4	1412.4	1428.2	1446.8	1461.8	1472.4	1477.3	1475.8	1467.6	1452.9
7.5°	1379.3	1394.1	1408.1	1425.1	1445.0	1461.3	1472.4	1477.8	1476.0	1467.1	1451.6
8°	1373.0	1388.5	1403.5	1421.8	1442.9	1460.2	1472.4	1478.0	1476.3	1466.6	1449.8
8.5°	1366.6	1382.6	1398.7	1418.3	1440.6	1459.0	1472.2	1478.0	1476.0	1465.8	1448.0
9°	1360.0	1376.8	1393.8	1414.7	1438.4	1457.7	1471.4	1478.0	1475.8	1464.6	1446.2
9.5°	1352.9	1370.7	1388.8	1410.6	1435.6	1456.2	1470.9	1477.5	1475.5	1463.5	1444.0
10°	1346.0	1364.3	1383.4	1406.6	1432.8	1454.6	1469.9	1477.0	1474.7	1462.0	1441.7
10.5°	1338.6	1357.7	1377.8	1402.2	1429.5	1452.6	1468.9	1476.3	1474.0	1460.5	1439.1
11°	1331.5	1351.4	1372.2	1397.9	1426.1	1450.6	1467.6	1475.2	1472.7	1458.7	1436.3
11.5°	1323.6	1344.2	1366.4	1393.3	1422.8	1448.3	1466.1	1474.2	1471.7	1456.7	1433.5
12°	1316.0	1337.6	1360.3	1388.2	1419.3	1445.7	1464.6	1473.0	1470.2	1454.6	1430.5
12.5°	1308.1	1330.2	1353.9	1383.4	1415.5	1443.2	1462.5	1471.4	1468.6	1452.4	1427.2
13°	1300.0	1322.9	1347.5	1378.1	1411.4	1440.4	1460.5	1469.7	1466.9	1449.8	1423.9
13.5°	1291.8	1315.2	1340.9	1372.5	1407.3	1437.3	1458.5	1467.6	1464.8	1447.0	1420.0
14°	1283.4	1307.6	1334.1	1366.9	1402.7	1434.0	1455.9	1465.6	1462.5	1444.2	1416.2
14.5°	1274.8	1299.7	1326.9	1361.0	1398.2	1430.5	1453.4	1463.3	1460.0	1441.2	1412.2
15°	1266.1	1291.8	1320.1	1355.2	1393.3	1426.9	1450.6	1461.0	1457.7	1437.9	1408.3
15.5°	1257.2	1283.2	1312.4	1348.8	1388.2	1423.1	1447.5	1458.2	1454.9	1434.3	1403.8
16°	1248.3	1275.0	1305.1	1342.5	1382.9	1419.0	1444.2	1455.4	1451.8	1430.7	1399.2
16.5°	1238.9	1266.6	1297.2	1336.1	1377.8	1415.0	1440.9	1452.4	1448.5	1426.9	1394.6
17°	1229.8	1258.0	1289.5	1329.5	1372.2	1410.6	1437.3	1449.3	1445.5	1422.8	1389.8
17.5°	1220.3	1249.1	1281.4	1322.4	1366.4	1406.1	1433.5	1445.7	1441.9	1418.5	1384.7
18°	1210.9	1240.2	1273.3	1315.2	1360.5	1401.2	1429.7	1442.2	1438.1	1414.4	1379.6
18.5°	1201.0	1231.0	1264.9	1307.9	1354.4	1396.4	1425.6	1438.4	1434.3	1409.9	1374.0
19°	1191.1	1221.6	1256.5	1300.2	1348.0	1391.3	1421.3	1434.5	1430.2	1405.0	1368.7
19.5°	1181.4	1212.2	1247.6	1292.6	1341.7	1386.0	1416.7	1430.2	1425.9	1400.2	1363.1
20°	1171.5	1202.8	1238.9	1285.0	1334.8	1380.6	1412.2	1425.9	1421.6	1395.4	1357.2
20.5°	1161.1	1193.1	1230.0	1276.8	1328.0	1375.0	1407.3	1421.6	1417.0	1390.0	1351.1
21°	1150.9	1183.2	1220.9	1268.7	1320.8	1369.2	1402.2	1416.7	1412.2	1384.7	1345.0



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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°	1119.3	1153.2	1192.6	1243.0	1298.4	1350.6	1386.2	1401.7	1396.9	1367.6	1325.4
23°	1108.9	1143.0	1182.9	1234.3	1290.8	1344.0	1380.6	1396.4	1391.3	1361.8	1318.5
23.5°	1098.0	1132.3	1173.0	1225.2	1282.7	1337.1	1374.8	1391.0	1386.0	1355.7	1311.7
24°	1087.0	1122.4	1163.1	1215.8	1274.5	1330.5	1368.7	1385.2	1380.1	1349.3	1304.3
24.5°	1076.1	1111.7	1152.9	1206.3	1266.1	1323.1	1362.5	1379.3	1374.3	1343.0	1296.7
25°	1065.2	1100.8	1142.5	1196.9	1257.5	1316.0	1356.2	1373.5	1367.9	1336.6	1289.0
25.5°	1054.0	1090.1	1132.1	1187.0	1248.6	1308.4	1349.8	1367.1	1361.8	1330.0	1281.1
26°	1043.0	1079.4	1121.1	1177.1	1239.7	1300.5	1343.2	1361.0	1355.7	1323.1	1273.0
26.5°	1031.6	1068.5	1110.7	1166.7	1230.3	1292.6	1336.3	1354.7	1349.1	1316.0	1264.6
27°	1020.4	1057.3	1100.0	1156.7	1220.6	1284.7	1329.5	1348.3	1342.5	1308.9	1255.7
27.5°	1008.9	1046.1	1089.1	1146.3	1210.9	1276.1	1322.4	1341.7	1335.8	1301.7	1246.8
28°	997.5	1034.9	1077.6	1135.4	1201.0	1267.4	1315.0	1334.6	1328.7	1294.4	1237.6
28.5°	986.0	1023.7	1066.9	1124.4	1190.8	1258.5	1307.1	1328.0	1321.8	1286.2	1228.0
29°	974.3	1012.2	1055.7	1113.2	1180.4	1249.6	1299.5	1320.8	1314.7	1278.3	1218.3
29.5°	962.6	1000.8	1044.6	1102.3	1169.7	1239.9	1291.3	1313.7	1307.6	1269.9	1208.6
30°	951.2	989.3	1032.3	1091.1	1159.0	1230.3	1283.2	1306.3	1300.0	1261.6	1198.7
30.5°	939.2	977.9	1021.1	1079.4	1148.3	1220.1	1274.5	1298.7	1292.6	1252.6	1188.3
31°	927.3	965.9	1009.4	1068.0	1137.2	1209.9	1265.6	1290.8	1285.0	1243.5	1177.9
31.5°	915.6	954.5	997.7	1056.3	1125.7	1199.5	1256.7	1282.9	1277.3	1234.3	1167.4
32°	903.9	942.5	985.5	1044.3	1114.3	1189.3	1247.3	1274.8	1269.2	1224.9	1156.5
32.5°	891.9	930.6	973.8	1032.9	1102.8	1178.4	1237.4	1266.1	1261.3	1215.0	1145.5
33°	880.0	918.9	961.6	1020.4	1091.1	1167.7	1227.5	1257.2	1252.6	1204.8	1134.1
33.5°	868.0	906.9	949.9	1008.4	1079.2	1156.5	1217.3	1248.3	1243.2	1194.4	1122.7
34°	856.0	895.0	937.5	996.5	1067.2	1145.3	1207.1	1238.9	1233.3	1184.5	1110.7
34.5°	843.8	883.0	925.5	984.3	1054.7	1133.8	1196.7	1229.2	1223.6	1173.3	1098.7
35°	831.6	870.8	913.0	971.8	1042.8	1122.1	1186.0	1219.1	1214.0	1162.3	1086.5
35.5°	819.7	858.8	900.8	959.1	1030.3	1110.4	1175.1	1209.1	1204.3	1150.9	1073.6
36°	807.5	846.6	888.4	946.6	1017.8	1098.5	1163.9	1198.5	1193.9	1139.2	1060.8
36.5°	795.5	834.7	876.4	934.1	1005.4	1086.0	1152.4	1188.0	1182.9	1126.2	1047.4
37°	783.0	822.5	864.2	921.7	992.7	1073.6	1140.7	1176.8	1171.5	1113.5	1033.9
37.5°	771.1	810.0	851.2	909.0	979.4	1061.1	1128.5	1165.6	1159.8	1100.3	1020.1
38°	758.6	797.8	839.0	896.0	966.5	1048.1	1116.0	1153.7	1146.8	1086.5	1006.1
38.5°	746.9	785.8	826.3	883.3	953.5	1034.9	1103.6	1141.2	1133.8	1072.3	991.9
39°	734.7	773.4	813.8	870.0	940.3	1022.2	1090.6	1127.7	1120.4	1057.8	976.9
39.5°	722.2	761.4	801.3	857.8	927.0	1008.7	1077.6	1114.0	1105.6	1042.8	962.1
40°	709.8	749.2	788.9	844.9	914.0	995.2	1063.6	1099.5	1091.1	1027.5	946.9
40.5°	698.1	737.0	776.4	831.6	900.3	981.2	1049.6	1085.3	1076.1	1011.7	931.3
41°	685.3	724.8	763.7	818.6	886.8	967.5	1034.9	1070.0	1060.8	995.7	915.8
41.5°	673.4	712.6	751.5	805.9	873.3	953.5	1020.9	1055.2	1045.1	979.4	900.3
42°	661.2	700.1	739.0	792.7	859.6	939.0	1005.6	1039.5	1029.0	962.9	884.3
42.5°	649.2	688.1	726.3	779.7	845.9	924.7	990.6	1024.5	1013.0	946.6	868.3
43°	637.0	675.9	713.8	767.0	832.4	910.5	975.1	1008.4	996.7	929.1	852.0
43.5°	625.1	664.0	701.4	754.0	818.6	895.7	959.8	992.4	979.9	912.0	835.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	588.4	627.6	664.2	715.1	776.9	850.7	912.3	943.0	929.1	860.1	785.8
45.5°	577.0	615.4	651.8	701.9	763.2	835.7	896.5	926.5	911.8	842.8	769.3
46°	564.8	603.4	639.6	688.9	749.2	820.2	880.0	909.7	894.5	825.5	752.3
46.5°	552.8	591.7	627.3	676.2	735.0	805.2	863.9	892.7	876.7	808.0	735.7
47°	540.8	579.5	615.1	663.2	721.0	789.6	847.7	875.4	859.1	790.4	718.9
47.5°	529.1	567.6	602.9	650.5	707.0	774.4	831.1	858.1	841.3	773.1	702.6
48°	517.2	555.6	590.7	637.5	693.2	759.1	814.6	841.0	823.7	755.8	686.1
48.5°	505.5	543.9	578.5	624.8	679.2	743.6	798.3	824.0	806.2	738.8	669.8
49°	493.8	532.2	566.5	612.1	665.2	728.3	781.8	806.4	788.1	721.2	653.8
49.5°	482.3	520.2	554.8	599.6	651.3	713.1	765.2	789.1	770.6	704.4	637.8
50°	470.4	508.8	542.6	587.1	637.3	697.8	748.7	771.6	753.0	687.1	621.7
50.5°	458.9	497.1	530.7	574.2	623.5	682.5	732.4	754.0	735.2	670.6	605.7
51°	447.5	485.4	519.0	561.5	609.5	667.0	715.9	737.0	717.9	653.8	590.5
51.5°	436.0	473.7	507.3	549.2	595.8	652.3	699.6	719.7	700.1	637.0	574.9
52°	424.8	462.2	495.8	537.0	582.3	637.0	683.6	702.4	682.8	620.7	559.7
52.5°	413.6	450.8	484.1	524.8	568.8	622.0	667.0	684.8	665.5	604.4	544.7
53°	402.2	439.6	472.4	512.1	555.3	607.0	650.7	667.8	648.7	588.4	529.7
53.5°	390.5	427.9	461.0	500.1	541.6	592.5	634.7	650.7	631.7	572.1	514.9
54°	379.6	417.0	449.8	487.9	528.4	577.5	618.7	634.0	614.4	556.6	500.4
54.5°	368.4	405.5	438.3	475.7	515.4	563.2	603.2	616.7	598.1	541.1	486.2
55°	357.4	394.8	427.1	464.0	502.2	549.0	587.7	600.9	582.1	525.8	472.2
55.5°	346.5	383.6	415.9	452.1	489.2	534.7	571.9	583.8	565.3	510.6	457.7
56°	335.5	372.9	405.0	440.1	476.0	520.2	556.1	567.6	549.2	495.3	444.2
56.5°	324.6	362.0	394.1	428.4	463.5	506.2	540.8	551.3	533.2	480.6	430.9
57°	313.9	351.3	383.1	417.0	451.0	492.5	525.8	535.3	517.4	466.1	417.5
57.5°	303.5	340.6	372.2	405.3	438.6	479.0	511.1	519.5	501.9	451.8	404.5
58°	292.8	330.2	361.5	393.8	426.1	465.3	496.1	504.0	486.9	437.8	391.8
58.5°	282.6	319.8	351.1	382.6	414.2	452.1	481.6	488.7	471.7	423.6	379.1
59°	272.5	309.9	340.6	371.7	401.9	438.8	467.1	473.7	456.6	410.1	366.8
59.5°	262.3	299.4	329.7	360.7	390.2	425.9	452.8	458.9	442.1	396.6	354.6
60°	252.6	289.5	319.5	350.0	378.5	412.9	438.8	444.4	428.1	383.6	342.7
60.5°	242.7	279.3	309.1	339.1	367.1	400.4	424.8	429.9	413.6	370.7	330.7
61°	233.0	269.7	299.2	328.7	355.9	388.0	411.4	415.9	400.2	357.9	319.5
61.5°	223.6	260.0	289.0	318.3	345.2	375.7	398.1	402.2	386.4	345.5	308.3
62°	214.5	250.6	279.6	308.3	334.0	363.8	384.9	388.7	373.7	333.8	297.4
62.5°	205.0	241.2	269.9	298.2	323.6	351.8	371.9	375.2	360.5	321.6	286.5
63°	196.4	232.0	260.5	288.5	312.9	340.1	359.2	362.3	347.5	309.9	276.0
63.5°	187.7	222.9	251.1	279.1	302.7	328.7	346.7	349.5	335.3	298.4	265.6
64°	179.3	213.7	242.4	269.7	292.6	317.5	334.5	337.3	323.1	288.0	255.7
64.5°	170.7	204.8	233.3	260.2	282.9	306.5	322.6	325.1	311.1	276.8	246.0
65°	162.8	196.4	224.6	251.3	273.0	295.9	311.1	313.2	299.9	266.4	236.6
65.5°	154.7	188.0	216.0	242.7	263.6	285.2	299.7	301.7	288.2	255.7	227.2
66°	146.8	179.6	207.8	234.0	254.4	274.7	288.5	290.3	276.3	245.7	218.3



TEST NUMBER: P775938

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	125.4	155.7	183.4	208.6	227.9	245.2	256.9	258.0	242.4	217.3	192.1
68°	119.1	148.3	176.0	200.7	219.8	235.6	246.5	247.3	231.8	207.8	184.2
68.5°	113.2	140.9	168.4	192.8	211.7	226.4	236.8	237.1	221.6	198.4	176.3
69°	107.6	133.8	161.0	185.2	203.3	217.8	227.4	227.4	211.4	189.0	168.7
69.5°	102.8	126.9	153.9	177.6	195.1	209.1	218.5	218.0	201.2	180.1	161.3
70°	99.7	120.3	146.8	170.2	187.0	200.7	209.6	208.6	191.1	171.7	153.9
70.5°	97.9	114.0	140.2	162.8	179.1	192.1	200.7	199.4	182.4	163.3	147.0
71°	96.2	108.4	133.6	155.9	171.7	183.9	191.8	190.0	173.8	155.4	140.2
71.5°	94.4	103.0	127.5	148.8	164.3	176.0	183.7	181.1	164.8	147.8	133.6
72°	92.6	98.7	121.3	142.2	157.2	168.7	175.5	172.7	156.7	140.4	127.2
72.5°	90.3	95.7	115.5	135.8	150.3	161.0	167.6	164.6	148.8	133.3	120.8
73°	88.0	93.4	110.2	129.5	143.5	153.9	160.5	156.7	141.2	126.2	114.7
73.5°	86.0	91.3	104.8	123.4	136.9	146.8	152.9	149.1	133.8	119.3	108.9
74°	83.7	89.3	100.0	117.5	130.5	140.4	145.8	141.7	126.9	112.7	103.0
74.5°	81.7	87.5	95.1	111.9	124.4	133.8	138.9	134.6	120.1	106.3	97.4
75°	79.1	85.5	90.8	106.6	118.3	127.5	132.5	127.7	113.5	100.2	92.1
75.5°	76.6	83.4	87.8	101.2	112.4	121.1	125.7	121.1	107.1	94.1	86.7
76°	73.8	81.2	84.7	96.4	107.1	115.2	119.6	114.5	100.7	88.3	81.4
76.5°	70.7	78.6	81.7	91.6	101.5	109.6	113.5	108.1	94.9	82.4	76.3
77°	67.9	76.1	78.4	87.5	96.4	104.0	107.6	101.8	88.8	76.8	71.5
77.5°	64.9	73.5	76.1	83.7	91.6	98.7	101.8	95.9	82.9	71.2	66.7
78°	61.8	70.7	74.0	79.9	86.7	93.4	96.2	90.1	77.1	65.9	61.6
78.5°	58.5	68.2	72.0	76.1	82.2	88.5	90.8	84.5	71.2	60.5	57.0
79°	55.2	65.1	69.7	72.2	77.8	83.7	85.5	78.9	65.4	55.2	52.4
79.5°	51.9	62.3	67.4	68.9	73.5	79.1	80.4	73.3	59.8	50.1	47.8
80°	48.6	59.3	64.9	65.6	69.5	74.5	75.6	67.9	54.2	45.3	43.5
80.5°	45.0	56.2	62.3	62.8	65.6	70.2	70.7	63.1	48.6	40.2	39.4
81°	41.5	52.9	59.8	60.0	61.8	65.9	65.9	57.7	43.0	35.6	35.4
81.5°	37.9	49.9	57.0	57.2	58.3	61.8	61.3	52.9	37.4	31.0	31.3
82°	34.3	46.3	54.2	54.4	54.7	57.7	56.5	48.1	31.8	27.2	27.5
82.5°	30.8	43.0	51.4	51.9	51.4	53.9	51.9	43.5	27.5	23.7	24.2
83°	26.7	39.4	48.6	49.1	48.1	49.9	47.6	38.9	22.9	20.1	20.9
83.5°	22.9	35.9	45.5	46.8	44.8	46.0	43.2	34.9	18.3	16.5	17.6
84°	19.1	32.3	42.7	44.3	41.5	42.2	39.2	30.5	14.0	13.0	14.2
84.5°	15.5	28.7	39.7	41.7	38.4	38.7	35.4	27.0	9.4	10.4	11.2
85°	12.2	25.2	36.9	39.2	35.4	35.1	31.5	23.4	7.6	8.1	8.1
85.5°	9.9	21.9	34.1	36.6	32.6	31.8	28.0	20.1	6.1	5.9	5.9
86°	8.6	19.1	31.3	33.8	29.8	28.5	24.9	16.5	5.1	3.8	3.6
86.5°	7.1	16.8	28.5	31.0	27.0	25.4	21.6	13.0	4.1	2.0	2.0
87°	5.9	14.8	25.7	28.0	24.4	22.4	18.3	10.2	3.1	1.0	0.8
87.5°	4.6	12.7	22.6	25.2	21.6	19.3	15.0	7.4	2.5	0.5	0.0
88°	3.3	10.7	19.8	22.1	18.8	16.3	11.7	5.1	1.5	0.3	0.0
88.5°	2.0	8.6	16.8	19.3	16.3	13.2	8.9	3.1	0.8	0.0	0.0



TEST NUMBER: P775938

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	2.8	8.4	9.7	7.6	5.6	2.0	0.3	0.0	0.0	0.0



TEST NUMBER: P775938

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
0.5°	1450.6	1451.1	1448.8	1447.3	1446.8	1447.0
1°	1450.6	1449.8	1446.5	1444.0	1442.9	1443.2
1.5°	1450.3	1448.3	1443.7	1440.4	1439.1	1439.6
2°	1449.8	1446.5	1440.9	1436.8	1435.1	1435.6
2.5°	1449.0	1444.7	1437.9	1433.3	1431.0	1431.5
3°	1448.3	1442.7	1434.5	1428.9	1426.7	1426.9
3.5°	1447.0	1440.4	1431.2	1424.9	1422.1	1422.6
4°	1446.0	1437.9	1427.7	1420.3	1417.0	1417.8
4.5°	1444.5	1435.3	1423.6	1415.7	1411.9	1412.9
5°	1442.7	1432.3	1419.8	1410.9	1406.8	1407.8
5.5°	1440.9	1429.2	1415.5	1405.8	1401.5	1402.5
6°	1438.9	1426.1	1410.9	1400.5	1395.9	1396.9
6.5°	1436.6	1422.6	1406.6	1395.1	1390.0	1391.3
7°	1434.0	1419.0	1401.7	1389.5	1383.9	1385.4
7.5°	1431.5	1415.2	1396.6	1383.7	1377.8	1379.3
8°	1428.7	1411.1	1391.6	1377.6	1371.2	1373.0
8.5°	1425.6	1407.1	1386.0	1371.5	1364.6	1366.6
9°	1422.6	1402.5	1380.6	1365.1	1358.0	1360.0
9.5°	1419.0	1397.9	1374.5	1358.5	1350.8	1352.9
10°	1415.5	1393.1	1368.7	1351.6	1343.7	1346.0
10.5°	1411.9	1388.2	1362.5	1344.7	1336.6	1338.6
11°	1407.8	1382.9	1356.2	1337.6	1329.0	1331.5
11.5°	1403.8	1377.8	1349.8	1330.5	1321.3	1323.6
12°	1399.4	1372.0	1343.0	1322.9	1313.5	1316.0
12.5°	1395.1	1366.4	1336.1	1315.0	1305.6	1308.1
13°	1390.3	1360.5	1329.0	1307.3	1297.4	1300.0
13.5°	1385.4	1354.4	1321.8	1299.2	1288.8	1291.8
14°	1380.4	1348.0	1314.2	1291.1	1280.6	1283.4
14.5°	1375.3	1341.7	1306.8	1282.7	1272.0	1274.8
15°	1369.9	1335.1	1298.9	1274.3	1263.1	1266.1
15.5°	1364.3	1328.0	1290.8	1265.4	1254.2	1257.2
16°	1358.5	1321.1	1282.7	1256.7	1245.0	1248.3
16.5°	1352.6	1314.2	1274.5	1247.8	1235.9	1238.9
17°	1346.5	1306.6	1266.1	1238.7	1226.2	1229.8
17.5°	1340.4	1298.9	1257.2	1229.2	1216.5	1220.3
18°	1333.8	1291.3	1248.6	1219.8	1207.1	1210.9
18.5°	1327.4	1283.4	1239.4	1210.2	1197.2	1201.0
19°	1320.6	1275.3	1230.3	1200.5	1187.3	1191.1
19.5°	1313.7	1267.2	1220.9	1190.3	1177.1	1181.4
20°	1306.6	1258.2	1211.2	1180.4	1167.2	1171.5
20.5°	1299.2	1249.6	1201.5	1170.2	1157.0	1161.1
21°	1291.3	1240.4	1191.6	1159.8	1146.6	1150.9

TEST NUMBER: P775938

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1267.7	1212.7	1160.6	1127.7	1114.5	1119.3
23°	1259.0	1202.5	1149.9	1116.8	1103.8	1108.9
23.5°	1250.4	1192.9	1138.9	1105.6	1092.9	1098.0
24°	1241.2	1182.4	1128.0	1094.4	1081.7	1087.0
24.5°	1232.3	1172.0	1116.8	1083.0	1070.5	1076.1
25°	1222.6	1161.1	1105.4	1071.5	1059.1	1065.2
25.5°	1213.2	1150.6	1094.2	1060.1	1047.9	1054.0
26°	1203.0	1140.0	1082.2	1048.4	1036.4	1043.0
26.5°	1193.1	1129.0	1071.0	1036.4	1024.7	1031.6
27°	1182.9	1117.3	1058.8	1024.7	1013.3	1020.4
27.5°	1172.5	1106.1	1047.1	1012.8	1001.6	1008.9
28°	1161.8	1094.4	1034.6	1000.5	989.6	997.5
28.5°	1151.4	1083.0	1022.9	988.6	977.6	986.0
29°	1140.2	1071.3	1010.5	976.4	965.9	974.3
29.5°	1129.0	1059.3	998.5	964.2	954.0	962.6
30°	1118.1	1047.1	985.8	952.0	942.0	951.2
30.5°	1106.9	1034.9	973.3	939.5	929.8	939.2
31°	1095.2	1022.7	960.6	927.0	917.9	927.3
31.5°	1083.2	1010.2	948.1	914.6	905.7	915.6
32°	1071.3	997.5	935.4	901.8	893.4	903.9
32.5°	1059.1	985.0	922.4	889.9	881.0	891.9
33°	1046.8	972.3	909.7	876.9	869.0	880.0
33.5°	1034.1	959.6	897.0	864.4	856.6	868.0
34°	1021.4	946.4	884.3	851.5	844.3	856.0
34.5°	1008.7	933.1	871.3	838.7	832.1	843.8
35°	995.7	919.9	857.8	826.3	819.7	831.6
35.5°	982.2	906.9	844.9	813.6	807.5	819.7
36°	968.7	893.7	832.1	800.8	795.0	807.5
36.5°	955.3	880.0	819.2	788.4	782.8	795.5
37°	941.3	866.2	805.9	775.4	770.6	783.0
37.5°	927.3	852.7	792.7	762.7	758.1	771.1
38°	912.8	839.0	779.5	750.0	745.6	758.6
38.5°	899.3	825.3	766.5	737.5	733.4	746.9
39°	884.5	811.5	753.5	724.8	721.2	734.7
39.5°	869.8	797.5	740.3	712.6	709.0	722.2
40°	855.3	783.5	727.1	699.6	696.3	709.8
40.5°	840.5	769.6	713.8	687.1	684.3	698.1
41°	825.8	755.8	700.9	674.4	672.1	685.3
41.5°	811.0	741.8	687.6	662.2	659.9	673.4
42°	796.3	728.1	674.7	650.0	647.4	661.2
42.5°	781.5	714.3	661.7	637.3	635.7	649.2
43°	766.0	700.4	649.0	625.1	623.8	637.0
43.5°	751.0	686.4	635.7	612.6	611.3	625.1



TEST NUMBER: P775938

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	705.7	644.9	597.6	576.2	575.4	588.4
45.5°	690.9	631.7	585.1	564.0	563.5	577.0
46°	675.4	618.2	572.6	552.3	551.8	564.8
46.5°	660.7	604.4	560.2	540.3	539.8	552.8
47°	645.4	591.0	547.5	528.6	528.4	540.8
47.5°	630.4	577.5	535.0	516.7	516.7	529.1
48°	615.4	564.3	522.8	504.7	505.0	517.2
48.5°	600.6	550.8	510.3	493.3	493.3	505.5
49°	586.1	537.8	498.6	481.8	481.8	493.8
49.5°	571.4	524.8	486.4	469.9	470.6	482.3
50°	556.4	511.6	474.2	458.4	459.4	470.4
50.5°	541.9	498.6	462.2	447.2	447.7	458.9
51°	528.1	485.6	450.8	436.0	436.5	447.5
51.5°	513.6	472.9	439.3	424.3	425.6	436.0
52°	499.6	460.5	427.6	413.9	414.7	424.8
52.5°	485.6	448.0	416.2	402.7	403.7	413.6
53°	472.2	435.3	405.3	391.8	392.8	402.2
53.5°	458.4	423.3	394.1	380.8	381.8	390.5
54°	445.7	410.9	383.1	370.4	371.2	379.6
54.5°	432.5	399.1	372.4	360.0	360.7	368.4
55°	419.5	387.2	361.8	349.5	350.3	357.4
55.5°	406.5	376.0	351.3	339.4	339.9	346.5
56°	394.3	364.3	340.9	329.4	329.4	335.5
56.5°	382.1	353.6	331.0	319.5	319.3	324.6
57°	370.1	342.2	320.8	309.6	309.1	313.9
57.5°	358.4	331.5	310.9	299.9	298.9	303.5
58°	346.7	320.8	301.2	290.5	289.5	292.8
58.5°	335.3	310.6	291.5	281.1	279.3	282.6
59°	324.1	300.2	282.4	272.2	269.9	272.5
59.5°	313.2	290.5	273.0	263.0	260.2	262.3
60°	302.5	280.3	263.8	254.4	251.1	252.6
60.5°	291.8	270.9	254.9	245.2	241.7	242.7
61°	281.9	261.5	246.0	236.8	232.8	233.0
61.5°	271.7	252.4	237.6	228.4	223.9	223.6
62°	262.0	243.5	229.0	220.3	215.5	214.5
62.5°	252.4	234.6	220.3	211.9	206.8	205.0
63°	242.9	225.9	212.2	203.8	198.7	196.4
63.5°	234.0	217.8	204.0	195.9	190.5	187.7
64°	225.1	209.1	196.1	188.0	182.7	179.3
64.5°	216.7	201.5	188.3	180.4	175.0	170.7
65°	208.6	193.6	180.9	172.7	167.6	162.8
65.5°	200.2	186.0	173.2	165.4	160.3	154.7
66°	191.8	178.3	165.9	158.0	153.1	146.8



TEST NUMBER: P775938

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	169.2	157.2	145.3	137.4	132.0	125.4
68°	161.8	150.3	138.9	131.0	125.2	119.1
68.5°	154.9	143.7	132.5	124.9	118.5	113.2
69°	148.1	137.4	126.4	119.1	112.2	107.6
69.5°	141.4	131.0	120.6	113.2	106.1	102.8
70°	135.1	125.2	115.0	107.9	100.5	99.7
70.5°	129.0	119.3	109.4	103.0	95.7	97.9
71°	122.6	113.7	104.0	98.2	91.8	96.2
71.5°	116.8	108.1	99.2	93.6	90.1	94.4
72°	111.2	102.8	94.4	90.1	88.0	92.6
72.5°	105.8	97.7	91.3	86.5	86.2	90.3
73°	100.2	92.9	87.0	82.9	84.2	88.0
73.5°	95.1	88.5	82.7	79.6	82.2	86.0
74°	90.3	84.2	78.4	76.1	79.6	83.7
74.5°	85.5	79.9	74.0	73.5	77.3	81.7
75°	80.6	75.6	70.5	71.0	74.8	79.1
75.5°	76.3	71.0	67.2	68.7	72.0	76.6
76°	71.7	67.2	63.9	66.4	69.2	73.8
76.5°	67.4	63.3	60.5	64.1	66.4	70.7
77°	63.3	59.5	57.7	61.6	63.3	67.9
77.5°	59.3	56.0	54.7	58.8	60.5	64.9
78°	55.2	52.4	51.9	56.2	57.5	61.8
78.5°	51.1	48.8	48.8	53.4	54.2	58.5
79°	47.3	45.5	46.0	50.6	50.9	55.2
79.5°	43.5	42.0	43.5	47.8	47.6	51.9
80°	39.9	38.9	41.0	44.8	44.0	48.6
80.5°	36.4	35.9	38.4	42.0	40.7	45.0
81°	32.8	32.8	35.9	38.9	37.4	41.5
81.5°	29.5	30.0	33.3	35.9	33.8	37.9
82°	26.5	27.0	30.5	33.1	30.5	34.3
82.5°	23.4	24.2	27.7	30.0	27.2	30.8
83°	20.1	21.6	24.7	27.2	23.9	26.7
83.5°	17.0	18.8	21.9	24.4	20.9	22.9
84°	14.0	16.0	18.8	21.6	18.1	19.1
84.5°	10.9	13.2	15.8	18.8	15.5	15.5
85°	8.1	10.4	12.7	15.8	13.5	12.2
85.5°	5.6	7.9	9.4	12.7	11.4	9.9
86°	3.3	5.3	7.1	9.7	9.4	8.6
86.5°	1.3	2.8	4.8	7.4	7.6	7.1
87°	0.0	0.5	2.5	5.1	5.9	5.9
87.5°	0.0	0.0	0.3	2.5	3.8	4.6
88°	0.0	0.0	0.0	0.3	2.0	3.3
88.5°	0.0	0.0	0.0	0.3	0.5	2.0



TEST NUMBER: P775938

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.3	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°	1140.5	1173.3	1211.4	1260.3	1313.7	1363.1	1397.1	1411.9	1407.3	1379.1	1338.6
22°	1130.0	1163.4	1202.3	1251.9	1306.1	1357.0	1391.8	1407.1	1402.2	1373.5	1332.0



44°	612.6	651.8	688.9	740.8	804.4	880.7	944.1	975.9	963.1	894.7	818.6
44.5°	600.9	639.6	676.4	727.8	790.7	865.7	928.3	959.6	946.4	877.9	802.4



66.5°	139.4	171.2	199.4	225.4	245.2	264.6	277.5	279.3	264.6	236.1	209.6
67°	132.3	163.3	191.3	217.3	236.3	254.9	267.1	268.6	253.6	226.7	201.0



89°	0.8	6.6	13.5	16.0	13.5	10.7	6.1	1.5	0.3	0.0	0.0
89.5°	0.3	4.8	10.4	13.0	10.4	7.9	3.8	0.8	0.0	0.0	0.0

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21.5°	1283.4	1231.5	1181.4	1149.4	1135.9	1140.5
22°	1275.8	1222.1	1170.7	1138.7	1125.5	1130.0



44°	735.7	672.6	623.3	600.6	599.4	612.6
44.5°	721.2	658.9	610.3	588.2	587.4	600.9



66.5°	184.2	171.0	159.0	151.1	145.8	139.4
67°	176.6	163.8	151.9	144.2	138.9	132.3

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Scaled Data Report



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

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)