

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: P775985

Luminaire Tested: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775985
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-2700K
Description: 4 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

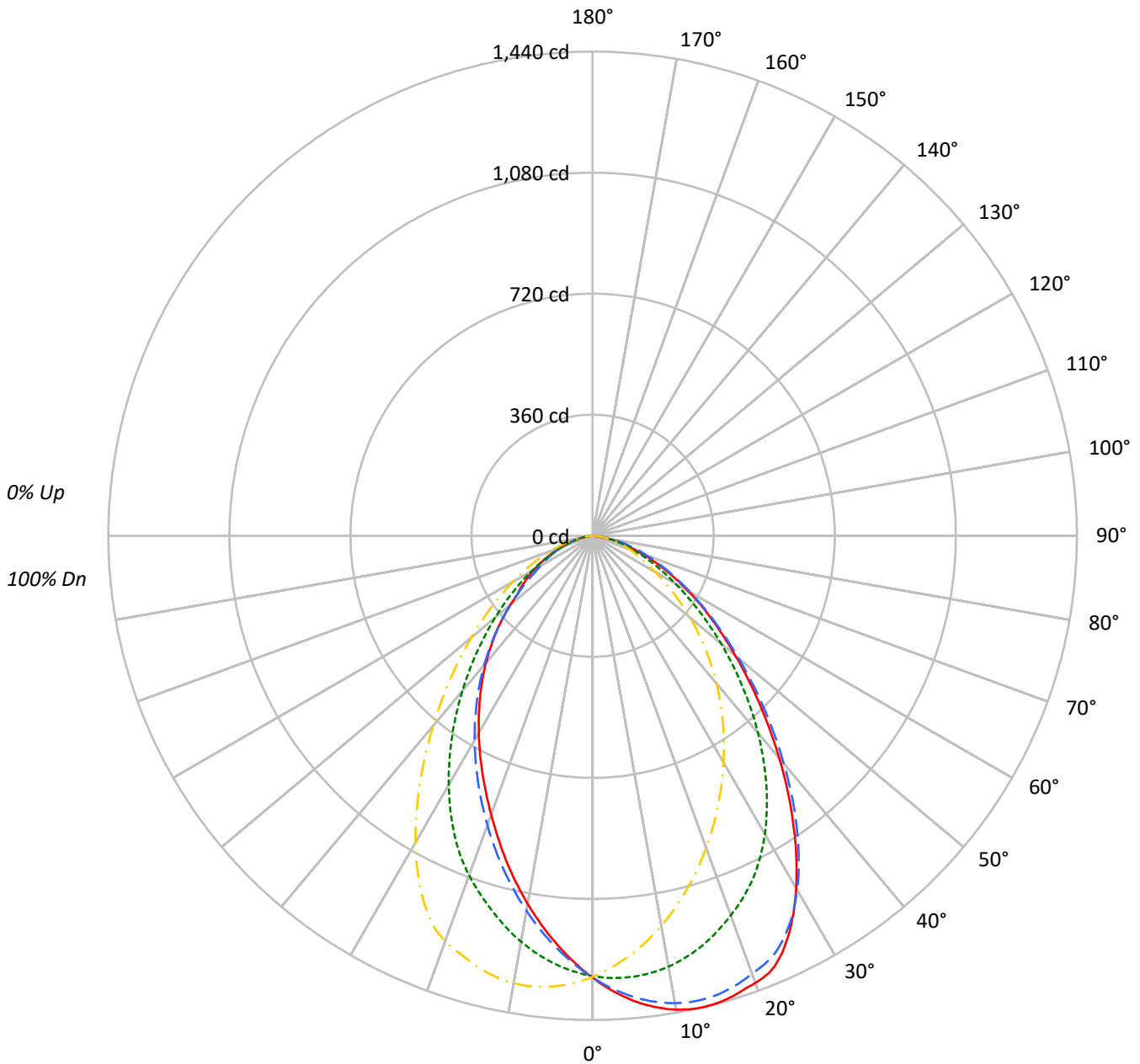
Lumens per Lamp: N/A
Luminaire Lumens: 2464.3 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.09 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P775985
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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				
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	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°	165190	165190	165190	165190
5°	175347	166377	154060	161501
10°	182882	166256	142066	156646
15°	187369	164360	129885	150406
20°	189519	160859	118163	143917
25°	187419	156453	107769	135402
30°	175923	148836	98352	124335
35°	159672	138225	89599	111907
40°	141844	125596	81042	99048
45°	124247	111735	72099	86124
50°	108310	97541	62437	73910
55°	94742	83947	55775	62796
60°	82633	71483	50491	52505
65°	70069	60540	43447	43149
70°	57586	50742	35766	34772
75°	44297	42401	28980	27327
80°	28265	35295	20583	20220
85°	8375	30756	8086	9386

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 128465 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	5.0
10°-20°	341.2	13.8
20°-30°	483.5	19.6
30°-40°	505.2	20.5
40°-50°	425.2	17.3
50°-60°	301.9	12.3
60°-70°	183.2	7.4
70°-80°	84.0	3.4
80°-90°	16.9	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°	947.9	38.5
0°-40°	1453.1	59.0
0°-60°	2180.2	88.5
0°-90°	2464.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1313	1313	1313	1313	1313	
5°	1388	1317	1220	1278	1388	134
15°	1438	1262	997	1154	1438	406
25°	1350	1127	776	975	1350	616
35°	1039	900	583	728	1039	648
45°	698	628	405	484	698	540
55°	432	383	254	286	432	388
65°	235	203	146	145	235	235
75°	91	87	60	56	91	98
85°	6	21	6	6	6	11
90°	0	1	0	0	0	



TEST NUMBER: P775985

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6
0.5°	1322.8	1322.8	1321.3	1318.4	1311.4	1308.7	1307.0	1305.8	1305.8	1305.6	1306.5
1°	1331.3	1331.0	1328.1	1323.0	1312.8	1307.0	1302.2	1298.3	1296.8	1296.4	1298.8
1.5°	1339.2	1339.2	1335.1	1327.6	1314.3	1304.8	1296.6	1290.5	1287.9	1287.4	1290.8
2°	1347.0	1347.0	1341.9	1331.7	1315.5	1302.7	1291.0	1282.5	1278.4	1277.9	1282.5
2.5°	1354.5	1354.8	1348.2	1335.9	1316.5	1300.0	1285.5	1274.3	1269.0	1268.5	1274.1
3°	1361.5	1362.0	1354.5	1339.5	1317.0	1297.3	1279.6	1266.1	1259.5	1258.8	1265.8
3.5°	1368.6	1369.1	1360.3	1342.9	1317.4	1294.2	1273.3	1257.6	1249.8	1248.9	1257.3
4°	1375.4	1376.1	1365.9	1346.3	1317.4	1291.0	1267.0	1248.9	1239.7	1238.9	1248.4
4.5°	1381.7	1382.6	1371.2	1349.4	1317.4	1287.4	1260.5	1239.9	1229.5	1229.2	1239.4
5°	1388.0	1388.9	1376.3	1352.1	1317.0	1283.8	1253.7	1230.9	1219.5	1218.8	1230.5
5.5°	1393.5	1395.0	1381.2	1354.5	1316.7	1279.9	1246.9	1221.7	1209.1	1208.2	1221.2
6°	1399.1	1400.8	1385.8	1356.9	1315.7	1275.8	1239.7	1212.5	1198.7	1197.7	1211.8
6.5°	1404.2	1406.1	1389.9	1358.9	1314.8	1271.6	1232.6	1203.3	1188.3	1187.3	1202.3
7°	1409.0	1411.2	1394.0	1360.6	1313.6	1267.0	1225.4	1193.6	1177.4	1176.9	1192.9
7.5°	1413.6	1416.1	1397.6	1362.0	1311.9	1262.2	1217.6	1183.9	1166.7	1166.0	1183.0
8°	1417.8	1420.4	1401.0	1363.0	1310.2	1257.3	1209.9	1174.2	1155.8	1155.1	1173.0
8.5°	1421.4	1424.5	1404.2	1364.0	1308.2	1252.0	1201.9	1164.3	1144.9	1144.2	1163.1
9°	1425.0	1428.4	1407.1	1364.7	1306.1	1246.9	1194.1	1154.4	1133.8	1133.0	1153.2
9.5°	1428.2	1431.8	1409.5	1365.2	1303.6	1241.4	1185.6	1144.2	1122.6	1122.1	1143.0
10°	1431.1	1435.0	1411.7	1365.2	1301.0	1235.5	1177.4	1134.0	1111.7	1110.8	1132.6
10.5°	1433.5	1437.6	1413.4	1364.9	1298.1	1229.5	1168.7	1123.8	1100.3	1099.4	1122.1
11°	1435.4	1440.1	1415.1	1364.7	1294.9	1223.4	1160.7	1113.2	1088.9	1088.2	1111.7
11.5°	1437.1	1442.0	1416.1	1363.7	1291.5	1217.4	1151.5	1102.8	1077.8	1077.1	1101.3
12°	1438.4	1443.7	1417.0	1362.8	1287.9	1210.8	1142.5	1092.1	1066.2	1065.4	1090.6
12.5°	1439.3	1444.9	1417.5	1361.5	1284.0	1204.3	1133.3	1081.7	1054.8	1054.0	1079.7
13°	1439.8	1445.9	1417.8	1359.8	1279.9	1197.5	1124.6	1070.8	1043.4	1042.4	1069.3
13.5°	1440.1	1446.4	1417.5	1357.9	1275.5	1190.5	1115.4	1060.3	1031.8	1031.0	1058.4
14°	1439.6	1446.6	1417.0	1355.7	1271.2	1183.2	1105.9	1049.2	1020.1	1019.2	1047.5
14.5°	1439.1	1446.4	1416.1	1353.3	1266.1	1175.9	1096.5	1038.3	1008.7	1007.5	1036.6
15°	1438.1	1445.6	1414.8	1350.4	1261.5	1168.7	1086.8	1027.2	996.9	996.1	1025.5
15.5°	1436.7	1444.7	1413.4	1347.5	1256.1	1160.9	1077.3	1016.2	985.2	984.5	1014.6
16°	1435.2	1443.2	1411.5	1344.1	1250.6	1153.2	1067.6	1005.3	973.6	972.6	1003.6
16.5°	1433.0	1441.5	1409.3	1340.5	1245.0	1145.2	1057.7	994.4	962.2	961.0	992.7
17°	1430.8	1439.6	1406.6	1336.6	1239.2	1137.4	1048.0	983.3	950.3	949.4	981.6
17.5°	1428.2	1437.4	1403.9	1332.5	1232.9	1128.9	1037.8	972.1	938.7	938.0	970.7
18°	1425.5	1434.7	1400.8	1328.1	1226.8	1120.7	1027.9	961.0	927.3	926.1	959.5
18.5°	1422.4	1431.8	1397.4	1323.5	1220.5	1112.2	1017.7	949.6	915.9	914.7	948.4
19°	1419.7	1428.7	1393.8	1318.9	1214.2	1104.0	1008.0	938.5	904.5	903.1	937.5
19.5°	1417.5	1425.8	1390.1	1313.8	1207.7	1095.5	997.3	927.6	893.6	891.9	926.4
20°	1415.1	1423.3	1386.3	1308.7	1201.1	1087.0	987.2	916.4	882.3	880.6	915.4
20.5°	1412.4	1420.7	1382.6	1303.9	1194.3	1078.3	977.0	905.3	871.6	869.7	904.3
21°	1409.3	1417.8	1379.2	1299.0	1187.6	1069.6	966.8	894.6	860.4	858.5	893.4



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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°	1395.9	1406.4	1366.6	1283.0	1166.5	1043.1	935.6	862.4	828.5	826.0	860.7
23°	1388.4	1400.8	1361.5	1277.2	1159.0	1034.2	925.4	852.0	817.6	815.4	849.8
23.5°	1380.0	1394.3	1356.0	1270.9	1151.2	1025.0	914.7	841.3	807.4	805.2	839.1
24°	1371.0	1386.3	1348.7	1263.9	1143.2	1015.8	904.3	830.9	797.0	794.3	828.2
24.5°	1361.1	1377.0	1340.7	1256.6	1135.0	1006.1	893.6	820.7	786.5	783.6	817.6
25°	1349.7	1367.8	1332.2	1248.4	1126.7	996.4	883.5	810.0	776.1	773.5	806.9
25.5°	1338.0	1358.1	1323.0	1239.7	1117.5	986.7	873.0	800.1	766.2	763.3	796.2
26°	1326.4	1347.2	1313.3	1230.5	1108.6	976.8	862.6	789.7	756.0	753.1	785.6
26.5°	1313.6	1335.1	1303.1	1220.5	1098.6	966.6	851.7	779.8	745.8	742.7	774.9
27°	1300.0	1323.5	1292.5	1210.1	1088.9	956.6	841.3	769.3	735.7	732.7	764.2
27.5°	1285.7	1310.9	1280.9	1199.4	1078.5	946.2	830.9	759.4	726.0	722.8	754.1
28°	1272.1	1297.3	1268.7	1188.0	1068.3	935.8	820.5	749.2	715.8	712.9	743.4
28.5°	1256.9	1283.5	1256.4	1176.7	1057.4	925.4	809.8	739.5	706.3	702.9	733.0
29°	1241.6	1269.5	1243.5	1164.5	1046.5	914.5	799.4	729.6	696.4	693.0	722.6
29.5°	1226.1	1254.7	1230.0	1152.4	1035.1	904.1	789.2	719.7	686.5	683.3	712.1
30°	1210.6	1239.7	1216.2	1139.8	1024.2	892.9	778.5	710.0	676.8	673.6	702.0
30.5°	1193.9	1224.2	1201.9	1126.7	1012.4	881.8	768.1	700.3	667.3	663.9	691.6
31°	1177.4	1208.2	1187.1	1113.7	1000.5	870.9	757.7	690.3	657.6	654.2	681.1
31.5°	1160.7	1191.7	1172.1	1099.8	988.4	859.5	747.3	680.4	648.4	644.3	670.7
32°	1143.7	1175.4	1156.8	1086.0	976.5	848.3	736.9	670.7	638.7	634.9	660.8
32.5°	1126.5	1158.7	1140.8	1072.2	963.9	837.2	726.7	661.3	629.5	625.4	650.4
33°	1109.5	1141.8	1125.0	1058.2	951.3	825.6	716.0	651.6	620.1	616.0	640.2
33.5°	1092.3	1124.3	1108.8	1043.4	938.7	814.2	705.8	642.1	610.9	606.5	629.8
34°	1074.9	1107.4	1092.3	1028.6	925.9	802.5	695.2	632.7	601.7	597.1	619.8
34.5°	1056.7	1089.2	1074.9	1013.8	912.8	790.9	685.0	623.0	592.4	587.6	609.7
35°	1039.3	1071.7	1058.2	998.6	899.7	779.3	674.6	613.5	583.2	578.4	599.5
35.5°	1021.8	1053.8	1041.2	983.3	886.6	767.9	664.4	604.1	574.5	569.2	589.5
36°	1004.4	1036.6	1024.0	967.8	873.3	756.3	654.0	594.9	565.1	559.7	579.8
36.5°	986.4	1018.7	1006.6	952.3	860.0	744.1	643.8	585.4	556.3	550.5	569.7
37°	968.3	1000.3	989.6	936.5	846.4	732.5	633.4	576.0	546.9	541.3	559.7
37.5°	951.1	982.3	972.1	920.8	832.8	721.1	623.2	566.8	538.2	532.1	550.0
38°	933.4	964.4	954.7	904.8	819.3	709.0	612.8	557.6	529.0	523.1	540.1
38.5°	915.7	946.2	936.8	888.8	805.7	697.4	603.1	548.3	520.0	513.9	530.2
39°	897.8	928.8	919.8	872.8	792.1	685.5	592.7	538.9	511.3	505.0	520.7
39.5°	880.8	910.8	902.1	856.8	778.3	673.9	582.8	529.7	502.6	495.8	510.8
40°	863.4	892.7	884.9	840.8	764.5	661.7	572.6	520.5	493.3	486.8	501.3
40.5°	845.7	874.7	867.2	824.8	750.7	650.1	562.4	511.0	484.4	477.6	491.4
41°	828.5	857.5	850.5	808.6	736.9	638.2	552.5	502.1	475.7	468.4	482.2
41.5°	811.7	840.1	833.1	792.8	723.5	626.6	542.5	492.9	466.9	459.4	472.5
42°	795.0	822.4	816.3	777.1	709.5	614.7	532.4	483.7	458.0	450.7	463.1
42.5°	778.1	805.0	799.4	761.1	695.9	603.4	522.4	474.7	449.0	441.7	453.8
43°	761.8	788.5	782.4	745.8	682.3	591.7	512.7	465.7	440.3	432.8	444.4
43.5°	745.8	771.5	765.7	729.8	668.5	580.1	502.6	456.5	431.6	423.8	434.7



TEST NUMBER: P775985

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	698.1	721.8	717.0	684.0	627.8	545.4	473.5	429.4	405.1	397.4	407.3
45.5°	682.8	705.8	701.0	668.5	614.5	534.1	463.5	420.2	396.7	388.7	398.1
46°	667.3	689.9	685.3	653.8	601.2	522.7	453.8	411.4	387.9	379.9	388.9
46.5°	651.8	674.3	670.0	639.0	588.1	511.5	444.2	402.5	379.2	371.0	379.9
47°	637.5	659.1	654.2	624.4	574.5	500.1	434.5	393.5	370.5	362.5	371.5
47.5°	623.0	643.6	639.0	609.7	561.4	489.0	425.0	384.8	361.5	353.8	362.0
48°	608.2	628.3	624.2	595.4	548.6	478.1	415.3	376.1	353.3	345.3	353.3
48.5°	594.1	614.3	609.7	581.5	536.0	467.2	406.1	367.1	344.6	336.6	344.6
49°	580.8	599.7	595.4	567.7	523.1	456.0	396.7	358.6	335.8	328.3	336.3
49.5°	567.0	585.2	581.1	553.9	510.5	445.6	387.2	349.9	327.4	319.8	327.4
50°	553.2	571.1	566.8	540.6	498.2	434.7	378.0	341.2	318.9	311.6	319.1
50.5°	540.6	557.8	553.0	526.8	485.8	424.0	368.8	332.4	310.2	303.4	310.6
51°	527.5	544.5	539.1	513.9	474.0	413.6	359.6	324.0	301.9	294.9	302.4
51.5°	514.4	530.7	526.1	500.9	462.1	403.2	350.6	315.5	293.9	287.1	294.2
52°	502.3	518.1	513.2	488.3	450.0	393.0	341.7	307.2	285.4	279.4	286.2
52.5°	490.4	505.7	500.1	475.9	438.3	382.6	332.7	298.8	277.9	271.4	277.9
53°	477.8	492.6	487.5	463.3	427.0	372.7	324.0	290.5	273.8	263.6	270.2
53.5°	465.7	480.5	475.2	451.2	415.6	362.7	315.0	282.5	269.4	256.4	262.4
54°	454.8	468.6	462.8	439.3	404.2	352.8	306.5	274.5	264.6	252.0	254.9
54.5°	443.4	457.0	450.9	427.7	393.3	343.1	298.0	266.8	259.3	247.4	247.4
55°	431.8	445.4	439.3	416.0	382.6	333.7	289.8	259.3	254.2	242.6	240.1
55.5°	421.6	434.0	427.9	404.9	371.9	324.2	281.6	251.5	248.6	237.5	233.1
56°	410.7	422.8	416.5	393.5	361.3	315.0	273.3	245.9	243.3	232.4	226.1
56.5°	399.8	411.9	405.6	382.9	350.9	305.8	265.1	241.6	237.9	227.0	219.3
57°	389.4	401.0	394.7	372.2	340.9	296.8	257.3	236.7	232.4	222.0	212.7
57.5°	379.2	390.8	384.1	361.8	331.0	287.9	249.6	231.9	227.0	216.9	206.9
58°	368.3	380.4	373.6	351.3	321.3	279.4	242.1	226.8	222.0	211.8	201.1
58.5°	358.4	370.0	363.5	341.4	311.6	270.9	234.8	221.7	216.6	206.7	195.3
59°	348.0	360.1	353.3	331.5	302.2	262.4	227.5	216.4	211.3	201.8	189.5
59.5°	337.8	349.9	343.6	321.8	293.0	254.2	220.3	211.3	206.0	197.0	183.7
60°	328.3	340.0	333.9	312.1	284.0	246.2	213.2	206.4	200.6	191.9	179.3
60.5°	317.7	330.3	324.5	302.9	275.0	238.4	206.9	201.4	195.3	187.1	174.9
61°	308.5	319.8	314.8	293.7	266.5	230.7	200.6	196.3	190.0	182.0	170.6
61.5°	298.8	310.9	306.0	285.0	257.8	222.9	194.3	191.4	184.6	177.1	166.2
62°	289.6	301.4	297.1	276.0	249.6	215.9	188.0	186.3	179.1	172.3	161.9
62.5°	280.1	292.0	288.1	267.5	241.3	208.9	181.7	181.0	173.5	167.2	157.5
63°	270.7	283.0	279.4	258.8	233.3	202.1	175.7	175.9	167.9	162.1	153.1
63.5°	261.7	273.8	270.9	250.5	225.3	195.1	170.3	170.6	162.3	157.3	148.8
64°	252.5	265.1	262.7	242.3	217.6	188.3	165.3	165.5	156.8	152.2	144.9
64.5°	244.0	256.1	254.4	234.6	210.6	181.2	160.9	160.4	151.2	147.1	140.8
65°	235.3	247.9	246.4	226.8	203.3	175.2	156.8	155.6	145.9	142.2	136.7
65.5°	227.0	239.2	238.4	219.3	196.0	168.9	152.7	150.2	140.5	137.1	132.5
66°	218.3	231.2	230.7	211.8	189.0	162.3	148.3	145.4	135.2	132.3	128.7



TEST NUMBER: P775985

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	194.3	206.9	207.9	190.2	168.6	145.4	135.9	130.6	119.7	118.0	116.8
68°	186.3	199.2	200.6	183.4	161.9	139.8	131.8	125.8	114.9	113.2	112.9
68.5°	178.6	191.7	193.6	176.4	155.8	134.5	127.9	121.2	110.3	108.8	109.0
69°	171.3	184.2	186.6	169.9	149.7	129.4	123.8	116.3	105.6	104.2	105.2
69.5°	163.8	176.6	179.3	163.3	143.7	124.3	119.7	111.7	101.5	100.1	101.3
70°	156.5	169.6	172.8	157.3	137.9	119.5	115.8	107.1	97.2	96.0	97.4
70.5°	149.3	162.6	166.2	150.7	132.1	114.9	111.9	103.0	93.0	91.8	93.5
71°	142.2	155.6	159.7	144.9	126.7	110.3	108.1	98.6	89.2	88.0	89.9
71.5°	135.5	148.8	152.9	138.8	121.2	105.9	104.2	94.5	85.3	84.1	86.0
72°	128.9	142.0	146.8	133.0	116.1	101.5	100.3	90.6	81.4	80.2	82.4
72.5°	122.1	135.7	140.5	127.5	110.7	97.4	96.4	86.7	77.5	76.6	78.8
73°	115.6	129.4	134.5	121.6	105.9	93.5	92.8	82.9	73.9	72.9	75.1
73.5°	109.3	122.9	128.4	116.3	100.8	89.4	88.9	79.2	70.3	69.3	71.5
74°	103.0	117.0	122.6	111.2	96.2	85.5	85.3	75.6	66.6	65.7	68.1
74.5°	96.9	111.0	117.0	105.9	91.6	81.9	81.9	72.0	63.2	62.3	64.9
75°	91.1	105.2	111.2	100.8	87.2	78.3	78.0	68.6	59.6	58.6	61.5
75.5°	85.5	99.3	105.6	96.0	82.9	74.6	74.6	65.2	56.2	55.2	58.4
76°	80.0	94.0	100.3	91.1	78.8	71.2	71.0	61.5	53.1	51.9	55.2
76.5°	74.6	88.4	95.0	86.5	74.6	67.8	67.8	58.2	49.7	48.7	52.1
77°	69.1	83.4	89.9	82.1	70.8	64.7	64.5	55.0	46.5	45.3	48.9
77.5°	63.7	78.5	85.1	77.5	66.6	61.5	61.3	51.9	43.4	42.2	46.0
78°	58.6	73.4	80.4	73.2	63.0	58.4	57.9	48.5	40.2	39.0	42.9
78.5°	53.3	68.3	75.6	68.8	59.1	55.5	55.0	45.3	37.1	35.9	40.0
79°	48.5	63.5	70.8	64.7	55.7	52.8	51.9	42.2	34.2	33.0	37.1
79.5°	43.6	58.9	66.2	60.6	52.1	49.9	48.7	39.3	31.3	30.0	34.2
80°	39.0	54.3	61.5	56.7	48.7	47.3	45.8	36.1	28.4	27.1	31.5
80.5°	34.4	49.7	57.4	52.8	45.6	44.6	42.9	33.2	25.4	24.5	28.8
81°	30.0	45.6	53.3	49.2	42.4	41.9	40.0	30.3	22.8	22.1	26.4
81.5°	25.7	41.4	48.9	45.6	39.5	39.3	37.3	27.6	20.1	19.6	23.7
82°	21.3	37.6	45.1	42.2	36.6	36.6	34.4	24.7	17.4	17.2	21.6
82.5°	17.4	33.7	41.4	38.8	33.7	33.9	31.7	22.5	14.8	14.8	19.4
83°	13.6	30.0	37.8	35.6	31.0	31.5	29.1	20.1	12.1	12.4	17.2
83.5°	9.9	26.7	34.4	32.5	28.4	29.1	26.7	17.7	9.7	10.7	15.0
84°	8.7	23.5	31.0	29.3	25.9	26.4	24.2	15.5	7.8	9.2	12.8
84.5°	7.3	20.8	27.9	26.4	23.5	24.2	22.1	13.1	6.3	8.0	10.9
85°	5.8	18.4	24.7	23.5	21.3	21.8	19.6	11.6	5.6	6.8	9.0
85.5°	4.4	16.0	21.8	20.8	18.9	19.6	17.4	10.2	4.6	5.6	7.0
86°	3.2	13.8	18.9	18.2	16.7	17.2	15.3	8.7	3.9	4.4	5.3
86.5°	2.4	11.6	16.0	15.5	14.3	14.8	12.8	7.3	3.2	3.4	3.4
87°	1.7	9.5	13.3	13.1	12.1	12.6	10.9	6.1	2.4	2.2	1.7
87.5°	1.2	7.3	10.7	10.7	10.2	10.4	8.7	4.6	1.5	1.2	0.5
88°	0.5	5.3	8.2	8.5	8.2	8.5	6.8	3.4	0.7	0.5	0.2
88.5°	0.2	3.4	6.3	6.5	6.3	6.3	4.8	1.9	0.2	0.2	0.0



TEST NUMBER: P775985

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

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: P775985

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6
0.5°	1308.2	1307.3	1311.6	1316.2	1320.1	1322.8
1°	1302.9	1305.1	1312.8	1320.6	1326.9	1331.3
1.5°	1297.3	1302.7	1313.6	1324.5	1333.4	1339.2
2°	1291.5	1299.5	1314.0	1328.3	1340.0	1347.0
2.5°	1285.5	1296.8	1314.5	1332.0	1345.8	1354.5
3°	1279.4	1293.7	1314.5	1335.1	1351.6	1361.5
3.5°	1272.9	1290.3	1314.5	1338.3	1357.2	1368.6
4°	1266.3	1286.7	1314.0	1340.9	1362.3	1375.4
4.5°	1259.8	1282.5	1313.3	1343.4	1367.4	1381.7
5°	1252.5	1278.4	1312.6	1345.5	1372.0	1388.0
5.5°	1245.5	1274.3	1311.4	1347.5	1376.6	1393.5
6°	1238.2	1269.7	1310.2	1348.9	1380.4	1399.1
6.5°	1230.9	1264.9	1308.2	1350.4	1384.3	1404.2
7°	1223.2	1260.0	1306.5	1351.4	1387.5	1409.0
7.5°	1215.4	1254.7	1304.4	1352.1	1390.6	1413.6
8°	1207.4	1249.4	1301.7	1352.6	1393.3	1417.8
8.5°	1199.2	1243.5	1299.0	1352.6	1395.7	1421.4
9°	1191.0	1238.0	1296.1	1352.6	1397.9	1425.0
9.5°	1182.7	1231.9	1293.0	1352.1	1399.6	1428.2
10°	1174.2	1225.8	1289.6	1351.1	1401.0	1431.1
10.5°	1165.5	1219.3	1285.9	1350.2	1402.2	1433.5
11°	1156.5	1213.0	1281.8	1348.7	1403.0	1435.4
11.5°	1147.6	1206.0	1277.5	1347.0	1403.2	1437.1
12°	1138.6	1199.2	1273.1	1344.8	1403.2	1438.4
12.5°	1129.4	1191.9	1268.3	1342.4	1402.7	1439.3
13°	1120.4	1184.7	1263.4	1339.7	1402.0	1439.8
13.5°	1111.2	1177.1	1258.3	1336.8	1400.8	1440.1
14°	<i>1101.5</i>	<i>1169.9</i>	<i>1253.0</i>	<i>1333.7</i>	<i>1399.3</i>	<i>1439.6</i>
14.5°	1091.9	1162.1	1247.4	1330.3	1397.6	1439.1
15°	1082.4	1154.4	1241.8	1326.4	1395.5	1438.1
15.5°	1072.9	1146.6	1236.0	1322.3	1393.0	1436.7
16°	1063.3	1139.1	1230.2	1318.2	1390.4	1435.2
16.5°	1053.6	1131.1	1224.2	1314.0	1387.5	1433.0
17°	1044.4	1123.4	1218.3	1309.4	1384.3	1430.8
17.5°	1034.4	1115.6	1212.5	1304.8	1380.9	1428.2
18°	1024.5	1107.6	1206.7	1301.0	1377.3	1425.5
18.5°	1014.6	1099.6	1200.4	1296.8	1374.4	1422.4
19°	1004.9	1091.4	1194.6	1292.5	1371.7	1419.7
19.5°	995.2	1083.4	1187.8	1287.6	1368.8	1417.5
20°	985.5	1074.6	1180.8	1282.5	1365.2	1415.1
20.5°	975.5	1065.9	1173.8	1277.2	1361.3	1412.4
21°	965.4	1056.7	1166.0	1271.2	1356.9	1409.3

TEST NUMBER: P775985

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	934.6	1028.4	1139.3	1247.2	1337.8	1395.9
23°	923.9	1018.4	1129.4	1237.2	1329.1	1388.4
23.5°	913.5	1008.0	1118.7	1227.1	1319.6	1380.0
24°	902.8	997.1	1107.8	1216.2	1309.4	1371.0
24.5°	892.4	986.2	1096.0	1204.3	1298.8	1361.1
25°	881.5	975.1	1084.6	1192.4	1287.2	1349.7
25.5°	870.6	963.7	1072.7	1180.5	1274.6	1338.0
26°	859.5	952.0	1060.3	1167.9	1262.0	1326.4
26.5°	848.3	940.6	1047.7	1154.6	1248.9	1313.6
27°	837.4	929.0	1035.1	1141.5	1234.8	1300.0
27.5°	826.0	916.9	1022.3	1127.5	1220.0	1285.7
28°	814.6	904.5	1009.2	1112.9	1205.3	1272.1
28.5°	803.3	892.9	995.9	1098.6	1190.5	1256.9
29°	791.9	880.3	982.3	1084.1	1175.2	1241.6
29.5°	780.5	868.2	969.0	1068.6	1159.2	1226.1
30°	768.9	855.6	955.4	1053.6	1143.7	1210.6
30.5°	757.2	843.2	941.1	1037.8	1127.0	1193.9
31°	745.6	830.6	927.3	1022.3	1110.8	1177.4
31.5°	734.2	818.0	913.0	1006.8	1094.0	1160.7
32°	722.8	805.0	898.5	990.3	1077.3	1143.7
32.5°	710.9	792.6	884.4	974.6	1060.1	1126.5
33°	699.5	779.5	869.9	958.6	1043.6	1109.5
33.5°	688.2	767.2	855.6	942.6	1026.7	1092.3
34°	677.0	754.1	840.6	926.6	1009.7	1074.9
34.5°	665.4	741.5	826.0	910.1	992.5	1056.7
35°	653.8	728.4	811.3	894.1	975.5	1039.3
35.5°	642.4	716.0	797.0	878.1	958.3	1021.8
36°	631.2	703.7	782.2	862.1	941.9	1004.4
36.5°	619.8	690.6	767.6	846.4	924.7	986.4
37°	608.7	677.7	753.3	830.4	907.9	968.3
37.5°	597.3	665.4	738.6	814.6	890.5	951.1
38°	586.4	652.8	724.3	798.9	873.8	933.4
38.5°	575.2	640.2	710.0	783.6	857.3	915.7
39°	564.6	627.6	695.7	768.1	840.3	897.8
39.5°	553.4	615.2	681.9	752.9	824.3	880.8
40°	542.3	602.9	667.3	737.4	807.6	863.4
40.5°	531.6	590.5	654.0	722.6	791.6	845.7
41°	521.0	578.2	640.2	707.3	774.7	828.5
41.5°	510.3	565.8	626.6	693.0	759.4	811.7
42°	499.6	553.9	613.0	678.5	743.9	795.0
42.5°	489.2	542.0	600.0	664.2	728.1	778.1
43°	478.6	530.2	586.9	649.6	712.1	761.8
43.5°	468.4	518.5	573.8	635.8	697.4	745.8



TEST NUMBER: P775985

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	437.6	483.9	536.0	594.9	652.3	698.1
45.5°	427.4	472.7	523.9	581.5	638.5	682.8
46°	417.7	461.6	511.8	568.2	624.4	667.3
46.5°	407.8	450.5	499.6	555.6	610.4	651.8
47°	397.6	439.8	488.0	542.8	595.8	637.5
47.5°	388.2	428.9	476.4	530.2	582.5	623.0
48°	378.7	418.2	465.0	517.6	569.4	608.2
48.5°	369.3	407.8	453.6	505.7	556.3	594.1
49°	360.1	397.6	442.5	493.8	543.0	580.8
49.5°	350.6	387.7	431.6	482.2	530.7	567.0
50°	341.4	377.5	420.9	470.1	517.8	553.2
50.5°	332.4	367.8	410.0	458.9	505.5	540.6
51°	323.5	358.1	399.8	447.5	493.1	527.5
51.5°	315.0	348.7	389.4	436.6	481.7	514.4
52°	306.3	339.5	379.5	426.0	469.8	502.3
52.5°	297.8	330.3	369.3	414.8	458.2	490.4
53°	289.3	321.1	359.8	404.4	447.1	477.8
53.5°	281.3	312.1	349.9	394.0	435.9	465.7
54°	273.3	303.4	340.4	383.8	424.8	454.8
54.5°	265.1	294.4	330.8	373.9	414.4	443.4
55°	257.3	286.2	322.0	364.0	403.7	431.8
55.5°	249.8	277.7	313.1	354.3	393.3	421.6
56°	242.3	269.4	304.1	344.8	382.9	410.7
56.5°	234.8	261.5	295.4	335.4	373.2	399.8
57°	227.5	253.5	286.9	326.1	363.2	389.4
57.5°	220.7	245.5	278.2	316.9	353.5	379.2
58°	213.7	238.2	269.9	308.2	344.3	368.3
58.5°	207.2	230.4	261.7	299.5	334.9	358.4
59°	200.9	223.2	253.7	291.0	325.7	348.0
59.5°	194.3	215.9	245.9	282.3	316.5	337.8
60°	187.8	208.6	238.2	273.8	307.2	328.3
60.5°	181.2	201.6	230.4	265.8	298.3	317.7
61°	175.2	194.8	223.2	257.8	289.3	308.5
61.5°	169.1	188.0	215.7	249.8	280.4	298.8
62°	163.6	181.5	208.6	242.1	271.6	289.6
62.5°	158.0	175.2	201.4	234.3	262.7	280.1
63°	152.2	168.9	194.6	226.8	254.2	270.7
63.5°	146.8	162.6	187.5	219.5	245.7	261.7
64°	141.8	156.5	181.0	212.3	237.5	252.5
64.5°	136.7	150.7	174.5	205.0	229.5	244.0
65°	131.8	144.9	168.2	198.2	221.2	235.3
65.5°	127.0	139.1	161.6	190.9	213.5	227.0
66°	122.1	133.8	155.6	184.2	205.5	218.3



TEST NUMBER: P775985

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	109.0	118.0	137.6	164.5	183.2	194.3
68°	104.9	113.2	132.1	158.2	175.9	186.3
68.5°	101.0	108.1	126.5	151.7	168.9	178.6
69°	97.2	103.5	121.2	145.6	161.9	171.3
69.5°	93.3	98.9	115.8	139.6	155.1	163.8
70°	89.9	94.5	110.7	133.8	148.1	156.5
70.5°	86.5	90.1	105.6	127.7	141.5	149.3
71°	83.4	87.2	100.8	122.1	135.0	142.2
71.5°	80.0	83.1	96.0	116.6	128.7	135.5
72°	76.8	79.0	91.4	111.0	122.6	128.9
72.5°	73.7	74.6	86.3	105.6	116.6	122.1
73°	70.8	70.5	82.1	100.3	110.5	115.6
73.5°	67.6	66.9	78.0	95.2	104.7	109.3
74°	64.7	63.2	73.9	90.1	99.1	103.0
74.5°	61.8	59.9	69.8	85.5	93.5	96.9
75°	58.6	56.2	65.9	80.7	88.4	91.1
75.5°	56.0	53.1	62.0	76.1	83.4	85.5
76°	53.1	49.9	58.2	71.2	78.5	80.0
76.5°	50.2	46.8	54.3	66.6	73.4	74.6
77°	47.3	43.9	50.9	62.3	68.6	69.1
77.5°	44.6	41.0	47.3	58.2	63.5	63.7
78°	41.9	38.3	44.1	54.0	59.1	58.6
78.5°	39.3	35.6	40.7	49.9	54.5	53.3
79°	36.6	33.0	37.6	46.3	50.2	48.5
79.5°	33.9	30.3	34.7	42.4	46.0	43.6
80°	31.3	27.9	31.5	38.8	41.9	39.0
80.5°	28.8	25.4	28.8	35.4	38.3	34.4
81°	26.4	23.0	26.2	32.0	34.7	30.0
81.5°	24.0	20.8	23.3	28.8	31.0	25.7
82°	21.6	18.7	20.8	25.7	27.6	21.3
82.5°	19.4	16.5	18.4	22.8	24.7	17.4
83°	17.0	14.3	16.0	20.1	21.6	13.6
83.5°	14.8	12.1	13.6	17.4	18.9	9.9
84°	12.4	10.2	11.4	14.8	16.5	8.7
84.5°	10.2	8.2	9.2	12.4	14.3	7.3
85°	8.0	6.5	7.3	9.9	12.1	5.8
85.5°	6.1	4.8	5.3	8.0	9.9	4.4
86°	4.1	3.2	3.6	6.1	8.0	3.2
86.5°	2.2	1.2	1.7	4.1	6.3	2.4
87°	0.7	0.2	0.5	2.2	4.4	1.7
87.5°	0.2	0.0	0.2	0.5	2.4	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: P775985

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-2700K

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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Scaled Data Report





21.5°	1405.6	1414.4	1375.4	1293.9	1180.8	1060.8	956.4	883.7	849.8	847.6	882.3
22°	1401.5	1410.7	1371.2	1288.6	1173.5	1051.9	945.7	873.0	839.1	836.7	871.3



44°	729.4	754.6	749.7	714.3	654.7	568.2	492.9	447.3	422.6	415.1	425.5
44.5°	713.4	737.6	733.2	699.1	641.2	556.8	483.2	438.3	413.9	406.1	416.5



66.5°	210.3	222.9	222.9	204.5	181.7	156.5	144.2	140.5	129.9	127.5	124.5
67°	202.1	214.7	215.4	197.0	175.2	151.0	140.1	135.5	124.8	122.6	120.7



89°	0.0	1.5	4.4	4.6	4.4	4.4	2.9	1.0	0.0	0.2	0.0
89.5°	0.0	0.2	2.4	2.7	2.7	2.4	1.5	0.2	0.0	0.2	0.0

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21.5°	955.2	1047.5	1158.0	1264.1	1351.8	1405.6
22°	945.0	1038.3	1149.0	1256.4	1345.3	1401.5



44°	458.0	506.4	560.9	621.8	682.6	729.4
44.5°	447.8	495.0	548.3	608.4	667.8	713.4



66.5°	117.8	128.4	149.5	177.6	198.0	210.3
67°	113.4	123.1	143.4	170.8	190.5	202.1

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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)