

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: P776221

Luminaire Tested: HCDJBL51525CSD-HCD8TSQMW-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQMW-2500lm-3000K
Description: 8 INCH SQUARE MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2616.5 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.29
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

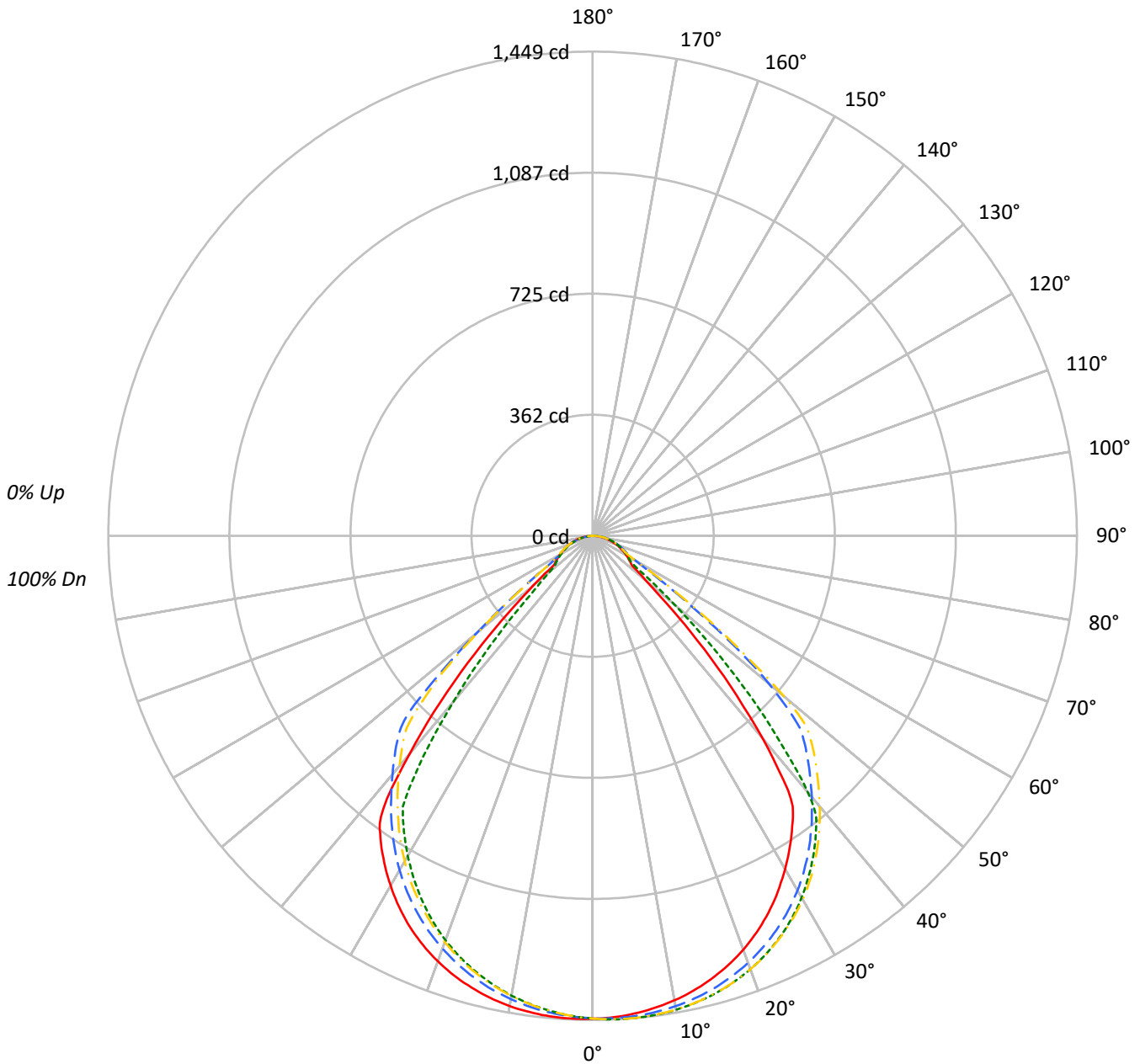
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56								
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46								
8	69	57	50	44	67	56	49	44	55	49	44	54	48	44	53	48	44	42								
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	34642	34642	34642	34642
5°	34548	34875	34755	34374
10°	34370	35062	34796	34022
15°	34079	35196	34747	33528
20°	33637	35219	34571	32856
25°	32923	35061	34191	31900
30°	31891	34632	33464	30620
35°	30543	33809	32387	28962
40°	24747	31364	26678	20318
45°	15070	21577	16928	11170
50°	7729	11769	8640	6308
55°	5769	6028	5627	5397
60°	5577	5745	5424	5199
65°	5396	5645	5254	5016
70°	5230	5574	5069	4795
75°	4966	5577	4845	4456
80°	4460	5662	4460	3853
85°	3191	6053	3522	2228

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 31883 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	5.2
10°-20°	390.7	14.9
20°-30°	584.1	22.3
30°-40°	670.2	25.6
40°-50°	486.7	18.6
50°-60°	178.4	6.8
60°-70°	95.6	3.7
70°-80°	57.8	2.2
80°-90°	16.2	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°	1111.5	42.5
0°-40°	1781.8	68.1
0°-60°	2446.8	93.5
0°-90°	2616.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1445	1445	1445	1445	1445	
5°	1435	1449	1444	1428	1435	136
15°	1373	1418	1400	1351	1373	387
25°	1244	1325	1292	1206	1244	572
35°	1043	1155	1106	989	1043	637
45°	444	636	499	329	444	350
55°	138	144	135	129	138	129
65°	95	100	93	88	95	94
75°	54	60	52	48	54	56
85°	12	22	13	8	12	14
90°	0	4	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°	1444.7	1444.7	1444.7	1444.7	1444.7	1444.7	1444.7	1444.7	1444.7	1444.7	1444.7
0.5°	1445.2	1445.4	1444.7	1444.4	1445.7	1445.7	1445.7	1446.1	1446.1	1445.4	1443.4
1°	1444.7	1445.2	1444.9	1445.2	1446.6	1446.4	1446.4	1446.6	1446.4	1445.2	1442.7
1.5°	1443.9	1444.9	1445.2	1445.7	1447.4	1447.1	1447.1	1447.1	1446.4	1444.9	1441.9
2°	1443.2	1444.4	1445.2	1445.9	1447.9	1447.9	1447.6	1447.4	1446.4	1444.7	1441.2
2.5°	1441.9	1443.9	1445.2	1446.4	1448.4	1448.4	1448.1	1447.4	1446.4	1444.2	1440.0
3°	1441.0	1443.2	1444.9	1446.6	1448.9	1448.9	1448.4	1447.4	1446.1	1443.7	1439.0
3.5°	1440.0	1442.4	1444.7	1446.6	1448.9	1449.1	1448.6	1447.6	1445.9	1442.9	1437.5
4°	1438.5	1441.5	1444.4	1446.6	1448.9	1449.1	1448.9	1447.4	1445.4	1441.9	1436.0
4.5°	1437.0	1440.5	1443.7	1446.1	1448.9	1449.1	1448.6	1447.1	1444.7	1441.0	1434.5
5°	1435.3	1439.2	1443.2	1445.9	1448.9	1449.1	1448.6	1446.6	1443.9	1439.7	1432.8
5.5°	1433.6	1438.0	1442.2	1445.4	1448.6	1448.6	1448.1	1446.1	1442.9	1438.2	1431.1
6°	1431.6	1436.5	1441.5	1444.9	1448.1	1448.4	1447.6	1445.4	1441.9	1437.0	1429.1
6.5°	1429.8	1434.8	1440.2	1444.2	1447.6	1447.9	1447.1	1444.7	1440.7	1435.5	1427.1
7°	1427.6	1433.1	1439.2	1443.4	1446.9	1447.4	1446.4	1443.7	1439.5	1433.8	1424.7
7.5°	1425.2	1431.3	1437.8	1442.4	1446.1	1446.9	1445.7	1442.7	1438.0	1432.1	1422.4
8°	1422.7	1429.4	1436.5	1441.5	1445.2	1445.9	1444.7	1441.5	1436.5	1430.1	1419.7
8.5°	1420.2	1427.1	1434.8	1440.0	1444.2	1444.9	1443.7	1440.2	1434.8	1427.9	1417.0
9°	1417.5	1424.9	1433.1	1438.7	1442.9	1443.9	1442.4	1438.7	1433.1	1425.7	1414.3
9.5°	1414.5	1422.4	1431.3	1437.3	1441.7	1442.4	1441.2	1437.3	1431.1	1423.2	1411.3
10°	1411.6	1419.7	1429.6	1435.8	1440.0	1441.2	1439.5	1435.3	1429.1	1420.7	1408.4
10.5°	1408.4	1417.0	1427.4	1434.0	1438.5	1439.7	1438.0	1433.3	1426.6	1418.2	1404.9
11°	1405.2	1414.3	1425.2	1432.1	1436.8	1438.2	1436.3	1431.3	1424.2	1415.3	1401.5
11.5°	1401.7	1411.3	1422.4	1430.1	1435.0	1436.3	1434.3	1429.1	1421.7	1412.6	1398.0
12°	1398.0	1408.1	1420.2	1427.9	1433.1	1434.3	1432.3	1426.9	1419.2	1409.4	1394.5
12.5°	1394.0	1404.9	1417.5	1425.7	1430.8	1432.3	1430.3	1424.7	1416.3	1405.9	1390.6
13°	1390.3	1401.2	1414.8	1423.2	1428.6	1430.1	1427.9	1421.9	1413.3	1402.4	1386.6
13.5°	1386.1	1397.8	1411.8	1420.7	1426.1	1427.9	1425.4	1419.2	1410.1	1399.0	1382.4
14°	1381.9	1393.8	1408.9	1418.0	1423.4	1425.2	1422.9	1416.3	1406.9	1395.3	1378.0
14.5°	1377.5	1390.1	1405.7	1415.3	1420.7	1422.7	1420.2	1413.3	1403.4	1391.6	1373.6
15°	1372.8	1385.9	1402.2	1412.1	1417.8	1420.0	1417.3	1410.1	1399.7	1387.4	1369.1
15.5°	1368.1	1381.7	1398.7	1408.9	1414.8	1416.8	1414.5	1406.9	1396.0	1383.4	1364.4
16°	1363.2	1377.0	1395.0	1405.7	1411.6	1413.8	1411.3	1403.4	1392.1	1379.0	1359.5
16.5°	1358.2	1372.8	1391.1	1402.2	1408.4	1410.6	1407.9	1399.7	1388.1	1374.5	1354.3
17°	1353.1	1368.1	1387.1	1398.5	1404.7	1407.1	1404.4	1396.0	1383.9	1370.1	1349.1
17.5°	1347.6	1363.2	1383.2	1394.8	1401.0	1403.7	1400.7	1392.1	1379.5	1365.4	1343.7
18°	1342.2	1358.2	1378.7	1390.8	1397.3	1400.0	1397.3	1387.6	1374.8	1360.5	1338.2
18.5°	1336.3	1353.1	1374.3	1386.9	1393.3	1396.0	1393.3	1383.7	1370.1	1355.3	1332.3
19°	1330.3	1347.6	1369.9	1382.4	1389.1	1392.1	1389.1	1379.0	1365.2	1350.1	1326.4
19.5°	1324.4	1341.9	1364.9	1378.0	1384.7	1387.9	1384.9	1374.8	1360.2	1344.7	1320.5
20°	1318.2	1336.3	1360.0	1373.6	1380.2	1383.7	1380.5	1369.6	1354.8	1339.2	1314.3
20.5°	1311.6	1330.3	1355.0	1368.9	1375.5	1379.0	1376.0	1364.9	1349.4	1333.6	1307.9
21°	1304.9	1324.4	1349.9	1363.9	1370.8	1374.5	1371.1	1359.7	1343.9	1327.4	1301.2



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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°	1283.7	1305.2	1332.8	1348.1	1355.0	1359.2	1356.0	1343.4	1326.1	1308.6	1281.0
23°	1276.3	1298.2	1326.9	1342.7	1349.6	1353.8	1350.8	1337.8	1319.7	1302.0	1273.8
23.5°	1268.6	1291.3	1321.0	1336.8	1343.7	1348.4	1345.2	1331.8	1313.1	1295.0	1266.4
24°	1260.7	1283.9	1314.5	1330.8	1338.0	1342.7	1339.2	1325.4	1306.6	1288.1	1259.0
24.5°	1252.8	1276.5	1308.1	1324.9	1331.8	1336.8	1333.6	1319.2	1299.5	1281.0	1251.1
25°	1244.4	1268.9	1301.5	1318.2	1325.2	1330.6	1327.4	1312.8	1292.3	1273.6	1243.4
25.5°	1236.0	1261.0	1294.8	1311.8	1319.0	1324.2	1321.2	1306.1	1285.2	1265.9	1235.3
26°	1227.6	1253.1	1287.6	1305.2	1312.1	1318.0	1314.8	1299.2	1277.5	1258.2	1227.1
26.5°	1218.7	1244.9	1280.7	1298.2	1305.2	1311.3	1308.1	1291.8	1269.6	1250.1	1218.7
27°	1209.9	1236.5	1273.6	1291.3	1298.0	1303.9	1301.5	1284.4	1261.5	1242.0	1210.1
27.5°	1200.2	1227.9	1265.9	1284.2	1290.6	1297.0	1294.5	1277.0	1253.3	1233.6	1201.5
28°	1191.1	1219.2	1258.0	1276.5	1282.9	1289.9	1287.4	1269.4	1244.9	1224.9	1192.8
28.5°	1181.0	1210.3	1250.3	1269.1	1275.0	1282.2	1280.0	1261.2	1236.3	1216.0	1183.4
29°	1171.8	1201.2	1242.2	1261.0	1267.6	1274.3	1272.6	1253.3	1227.1	1207.1	1174.3
29.5°	1161.5	1191.8	1234.1	1253.1	1258.7	1266.4	1264.9	1244.7	1218.2	1197.5	1164.7
30°	1151.8	1182.2	1225.7	1244.9	1250.8	1258.2	1256.8	1236.3	1208.6	1188.4	1155.3
30.5°	1141.2	1172.6	1217.3	1236.5	1241.5	1249.9	1248.9	1227.4	1199.5	1178.7	1145.2
31°	1131.3	1162.9	1208.4	1227.6	1233.3	1241.5	1240.5	1218.5	1189.9	1168.9	1135.3
31.5°	1120.7	1152.6	1199.2	1219.0	1223.4	1232.3	1232.1	1209.4	1180.2	1159.0	1125.2
32°	1110.3	1142.4	1190.1	1209.9	1214.1	1223.7	1223.2	1200.0	1170.3	1149.1	1114.8
32.5°	1099.2	1132.3	1180.7	1200.5	1204.7	1214.3	1214.3	1190.6	1160.2	1139.0	1103.9
33°	1088.9	1122.2	1170.8	1191.1	1195.3	1205.2	1205.2	1181.0	1149.9	1128.9	1093.3
33.5°	1077.8	1111.6	1161.5	1181.7	1185.2	1195.5	1195.8	1171.3	1139.5	1118.7	1082.4
34°	1066.6	1101.2	1151.3	1171.8	1175.0	1185.7	1186.2	1161.2	1128.9	1108.4	1071.3
34.5°	1054.5	1090.3	1141.2	1162.0	1164.9	1175.8	1176.5	1151.3	1117.5	1097.8	1060.2
35°	1043.4	1079.5	1130.8	1151.8	1155.0	1166.2	1166.6	1141.2	1106.4	1086.9	1048.9
35.5°	1031.8	1068.4	1120.5	1141.7	1143.9	1156.0	1156.3	1131.1	1095.0	1075.8	1037.5
36°	1019.7	1057.3	1109.6	1131.3	1133.3	1145.7	1145.9	1120.5	1083.4	1064.7	1025.9
36.5°	1007.1	1045.7	1099.0	1121.2	1122.0	1135.5	1135.3	1109.6	1070.6	1053.3	1014.1
37°	985.9	1034.1	1088.1	1110.6	1110.6	1124.7	1124.7	1098.5	1051.8	1041.5	1002.4
37.5°	960.5	1022.4	1077.0	1099.7	1099.0	1113.8	1113.6	1087.4	1028.4	1029.9	990.4
38°	926.4	1010.4	1065.9	1088.9	1087.1	1102.4	1102.7	1075.8	999.2	1017.3	978.5
38.5°	892.3	998.0	1054.3	1077.8	1073.8	1091.3	1091.3	1064.4	964.9	1003.2	966.9
39°	859.2	979.5	1042.9	1066.6	1054.8	1079.7	1080.2	1052.6	928.6	980.2	955.0
39.5°	825.7	954.8	1031.6	1055.0	1031.3	1067.9	1068.6	1039.2	890.6	954.8	943.2
40°	790.6	922.5	1020.0	1043.2	1002.0	1055.8	1056.8	1017.5	852.3	924.4	931.6
40.5°	754.1	888.6	1008.4	1031.1	968.6	1042.7	1044.9	995.5	816.0	890.6	920.2
41°	716.8	856.3	996.5	1019.0	930.8	1022.2	1033.6	966.6	781.2	857.0	908.6
41.5°	680.0	823.7	984.9	1005.9	892.6	999.5	1021.7	934.5	745.7	819.2	897.0
42°	644.9	789.6	973.1	988.4	854.1	971.8	1010.1	899.7	709.9	784.7	885.2
42.5°	611.6	754.1	961.2	965.7	817.5	939.0	998.5	863.2	672.8	751.1	873.6
43°	577.3	718.8	949.6	938.7	782.0	903.4	986.6	827.6	636.3	719.2	861.7
43.5°	543.2	683.2	937.5	908.4	746.2	865.9	975.3	793.1	600.0	684.2	849.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	444.4	580.2	902.0	803.9	636.3	758.3	940.2	690.1	499.2	582.7	811.6
45.5°	413.1	547.6	889.9	769.1	599.2	723.9	928.1	654.8	465.9	547.4	791.6
46°	383.7	514.8	877.5	736.3	564.9	688.9	916.0	619.7	434.3	516.0	767.9
46.5°	354.8	481.5	865.2	703.4	531.3	652.6	903.9	584.2	403.0	483.7	734.8
47°	326.7	449.1	852.3	669.6	497.8	616.3	891.6	550.6	373.1	454.6	694.1
47.5°	301.2	418.3	829.6	635.5	464.7	580.7	878.7	518.0	344.2	422.7	653.3
48°	276.8	388.4	805.9	601.5	431.8	547.4	865.4	486.4	318.5	394.1	611.6
48.5°	255.1	359.7	776.3	567.1	400.7	514.6	844.9	454.1	293.1	364.9	571.3
49°	236.5	331.6	747.1	535.5	370.6	481.5	816.5	422.7	269.9	336.8	532.6
49.5°	220.7	305.4	717.5	502.7	342.2	449.4	785.2	392.3	247.9	311.4	494.3
50°	207.2	280.2	688.9	473.1	315.5	417.3	746.9	363.0	231.6	287.6	456.5
50.5°	195.8	257.3	657.8	442.5	290.9	386.4	706.2	335.3	215.6	264.2	420.7
51°	185.2	237.0	621.7	412.1	267.2	357.0	663.2	308.1	199.5	242.7	387.4
51.5°	174.6	220.7	585.2	381.5	245.7	328.9	620.0	283.7	183.5	225.7	356.3
52°	164.2	206.4	546.9	353.8	228.6	302.5	578.0	260.7	167.4	208.6	326.2
52.5°	155.1	194.3	507.6	326.4	211.4	277.8	536.8	243.0	154.8	191.8	298.8
53°	148.4	183.2	469.6	301.2	194.3	254.6	498.8	225.2	145.9	174.8	273.8
53.5°	145.2	173.1	432.8	276.5	177.3	237.0	462.5	207.4	142.0	161.2	250.9
54°	142.5	162.7	398.0	254.8	164.4	219.5	426.9	189.6	139.3	149.1	233.6
54.5°	140.2	152.8	364.4	233.1	152.3	202.0	392.1	171.8	136.8	140.2	216.5
55°	138.0	144.9	334.8	214.3	144.2	184.4	358.8	159.3	134.6	136.3	199.7
55.5°	135.6	140.2	306.7	197.0	140.5	166.9	327.4	147.2	132.1	133.6	182.7
56°	133.3	137.5	279.3	181.5	138.0	153.8	298.3	137.8	129.9	131.4	165.9
56.5°	131.1	135.3	254.6	167.2	135.6	142.5	273.1	133.8	127.7	128.9	154.8
57°	128.9	132.8	232.6	154.1	133.1	135.6	252.3	131.1	125.4	126.7	145.4
57.5°	126.7	130.6	212.6	142.5	130.9	132.6	231.6	128.9	123.5	124.4	137.5
58°	124.7	128.4	194.8	135.1	128.6	130.4	210.6	126.4	121.2	122.2	131.1
58.5°	122.5	126.2	179.5	132.1	126.4	127.9	189.9	124.4	119.3	120.2	125.7
59°	120.5	123.9	165.9	129.6	124.2	125.7	169.4	122.2	117.0	118.0	121.0
59.5°	118.3	122.0	155.1	127.2	122.0	123.5	155.6	120.0	115.1	116.0	117.0
60°	116.3	119.8	145.9	124.9	119.8	121.2	144.7	118.0	113.1	114.1	113.6
60.5°	114.1	117.8	138.5	122.7	117.5	119.0	136.3	115.8	111.1	112.1	110.9
61°	112.1	115.8	132.3	120.5	115.6	116.8	128.9	113.8	109.1	110.1	108.6
61.5°	109.9	113.8	126.7	118.5	113.6	114.8	123.5	111.8	106.9	108.1	106.4
62°	107.9	111.6	122.0	116.3	111.6	112.8	118.5	109.9	104.9	106.2	103.9
62.5°	105.7	109.6	117.8	114.3	109.6	110.9	114.6	107.9	102.7	104.2	101.7
63°	103.5	107.7	114.6	112.1	107.4	108.9	110.9	105.9	100.7	102.0	99.5
63.5°	101.5	105.7	112.1	110.1	105.4	106.9	108.1	103.9	98.8	100.0	97.5
64°	99.3	103.7	109.6	108.1	103.5	104.9	105.7	102.0	96.5	97.8	95.3
64.5°	97.3	101.5	107.4	105.9	101.5	103.0	103.5	100.0	94.6	95.8	93.1
65°	95.1	99.5	105.2	103.9	99.5	101.0	101.2	98.0	92.6	93.8	90.9
65.5°	92.8	97.5	102.7	102.0	97.3	99.0	99.0	96.0	90.4	91.6	88.9
66°	90.9	95.3	100.5	100.0	95.3	97.0	96.8	93.8	88.4	89.6	86.7



TEST NUMBER: P776221

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	84.7	90.1	94.1	93.8	89.4	91.1	90.4	87.7	82.5	83.5	80.2
68°	82.7	87.9	91.9	91.6	87.4	89.1	88.1	85.7	80.5	81.2	78.0
68.5°	80.7	85.7	89.1	89.4	85.4	86.9	86.2	83.7	78.5	79.3	75.8
69°	78.8	83.2	87.2	87.4	83.5	84.9	83.9	81.5	76.5	77.0	73.8
69.5°	76.5	81.0	85.2	85.4	81.5	83.0	82.0	79.5	74.6	75.1	71.6
70°	74.6	79.0	83.0	83.7	79.5	81.0	79.8	77.5	72.3	73.1	69.4
70.5°	72.3	76.8	81.0	81.7	77.8	79.0	77.8	75.6	70.4	70.9	67.4
71°	70.4	74.8	78.8	79.5	75.8	77.0	75.6	73.3	68.4	68.9	65.2
71.5°	68.1	72.8	76.8	77.5	73.8	75.1	73.6	71.4	66.4	66.9	63.0
72°	66.2	70.6	74.6	75.6	71.9	73.1	71.4	69.4	64.4	64.7	61.0
72.5°	63.9	68.4	72.3	73.6	70.1	71.1	69.4	67.4	62.5	62.7	58.8
73°	62.0	66.4	70.1	71.4	68.1	69.1	67.2	65.2	60.5	60.7	56.8
73.5°	59.8	64.2	68.1	69.4	66.2	67.2	65.2	63.2	58.5	58.5	54.6
74°	57.8	62.2	65.9	67.4	64.2	65.2	63.2	61.2	56.5	56.5	52.3
74.5°	55.6	60.0	63.7	65.4	62.2	63.2	61.0	59.3	54.3	54.3	50.4
75°	53.6	58.0	61.7	63.5	60.2	61.2	59.0	57.0	52.3	52.3	48.1
75.5°	51.4	55.8	59.5	61.5	58.5	59.3	57.0	55.1	50.4	50.1	45.9
76°	49.1	53.6	57.3	59.3	56.5	57.3	54.8	52.8	48.4	47.9	43.9
76.5°	47.2	51.4	55.3	57.3	54.6	55.3	52.8	50.9	46.4	45.9	41.7
77°	44.9	49.4	53.1	55.3	52.6	53.3	50.9	48.9	44.2	43.9	39.8
77.5°	43.0	47.2	50.9	53.1	50.6	51.4	48.6	46.7	42.2	41.7	37.5
78°	40.7	44.9	48.9	51.1	48.6	49.4	46.7	44.7	40.2	39.8	35.6
78.5°	38.8	43.0	46.7	49.1	46.7	47.4	44.7	42.5	38.3	37.5	33.3
79°	36.5	40.7	44.7	46.9	44.9	45.4	42.5	40.5	36.3	35.6	31.4
79.5°	34.6	38.5	42.5	44.9	43.0	43.5	40.5	38.5	34.3	33.3	29.1
80°	32.3	36.5	40.2	43.0	41.0	41.2	38.5	36.3	32.3	31.4	27.2
80.5°	30.4	34.3	38.3	40.7	39.0	39.5	36.5	34.3	30.4	29.1	25.2
81°	28.4	32.1	36.3	38.8	37.3	37.5	34.6	32.3	28.4	27.2	23.0
81.5°	26.2	29.9	34.1	36.8	35.3	35.3	32.3	30.4	26.4	24.9	21.0
82°	24.2	27.9	31.9	34.6	33.3	33.6	30.4	28.1	24.4	23.0	19.0
82.5°	22.0	25.7	29.9	32.6	31.4	31.4	28.4	26.2	22.5	20.7	16.8
83°	20.0	23.7	27.9	30.6	29.6	29.4	26.4	24.2	20.5	18.8	14.8
83.5°	17.8	21.5	25.7	28.6	27.7	27.4	24.4	22.0	18.5	16.5	13.1
84°	15.8	19.3	23.7	26.7	25.7	25.4	22.5	20.0	16.5	14.6	11.4
84.5°	13.8	17.3	21.5	24.4	24.0	23.5	20.5	18.0	14.6	12.6	9.6
85°	11.6	15.1	19.5	22.5	22.0	21.7	18.5	15.8	12.8	10.4	7.9
85.5°	9.6	13.1	17.5	20.5	20.0	19.8	16.5	13.8	10.9	8.4	6.2
86°	8.1	10.9	15.3	18.5	18.3	17.8	14.6	11.9	9.1	6.7	4.7
86.5°	6.4	8.6	13.6	16.8	16.3	15.8	12.8	9.6	7.2	5.2	3.0
87°	4.9	7.2	11.9	14.8	14.3	13.8	11.1	7.9	5.4	4.0	1.5
87.5°	3.5	5.7	10.1	12.8	12.6	12.1	9.4	6.4	4.2	2.7	0.2
88°	2.0	4.2	8.6	11.1	10.6	10.1	7.9	4.9	3.0	1.5	0.0
88.5°	0.7	2.7	6.9	9.1	8.9	8.4	6.2	3.7	1.7	0.2	0.0



TEST NUMBER: P776221

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	2.0	3.7	3.5	3.0	1.5	0.2	0.0	0.0	0.0



TEST NUMBER: P776221

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1444.7	1444.7	1444.7	1444.7	1444.7	1444.7
0.5°	1442.7	1443.7	1443.4	1443.7	1444.4	1445.2
1°	1441.7	1442.4	1441.9	1442.4	1443.4	1444.7
1.5°	1440.5	1441.2	1440.5	1441.0	1442.4	1443.9
2°	1439.2	1439.7	1439.0	1439.7	1441.2	1443.2
2.5°	1437.8	1438.0	1437.5	1438.0	1439.7	1441.9
3°	1436.3	1436.5	1435.5	1436.5	1438.2	1441.0
3.5°	1434.5	1434.5	1433.8	1434.5	1436.8	1440.0
4°	1432.8	1432.6	1431.6	1432.6	1435.0	1438.5
4.5°	1430.8	1430.3	1429.6	1430.6	1433.3	1437.0
5°	1428.9	1428.1	1427.1	1428.1	1431.1	1435.3
5.5°	1426.6	1425.7	1424.7	1425.9	1429.1	1433.6
6°	1424.2	1423.2	1421.9	1423.4	1426.9	1431.6
6.5°	1421.7	1420.5	1419.2	1420.7	1424.7	1429.8
7°	1419.0	1417.5	1416.3	1418.0	1421.9	1427.6
7.5°	1416.3	1414.5	1413.1	1415.0	1419.5	1425.2
8°	1413.3	1411.3	1409.8	1412.1	1416.5	1422.7
8.5°	1410.1	1408.1	1406.6	1408.9	1413.6	1420.2
9°	1406.9	1404.4	1403.2	1405.4	1410.6	1417.5
9.5°	1403.4	1401.0	1399.5	1401.9	1407.4	1414.5
10°	1400.0	1397.3	1395.5	1398.2	1403.9	1411.6
10.5°	1396.0	1393.3	1391.6	1394.5	1400.5	1408.4
11°	1392.3	1389.1	1387.6	1390.6	1396.8	1405.2
11.5°	1388.1	1384.9	1383.4	1386.6	1393.1	1401.7
12°	1384.2	1380.5	1378.7	1382.2	1388.9	1398.0
12.5°	1379.7	1375.8	1374.3	1378.0	1384.7	1394.0
13°	1375.3	1371.1	1369.4	1373.3	1380.7	1390.3
13.5°	1370.6	1366.1	1364.7	1368.9	1376.3	1386.1
14°	1365.9	1361.2	1359.5	1363.9	1371.6	1381.9
14.5°	1361.0	1356.0	1354.3	1359.0	1366.9	1377.5
15°	1355.8	1350.6	1348.6	1353.8	1361.9	1372.8
15.5°	1350.6	1345.2	1343.4	1348.6	1356.8	1368.1
16°	1345.2	1339.2	1337.8	1342.9	1351.8	1363.2
16.5°	1339.7	1333.6	1331.8	1337.5	1346.4	1358.2
17°	1333.8	1327.6	1325.7	1331.6	1341.0	1353.1
17.5°	1327.9	1321.2	1319.5	1325.9	1335.3	1347.6
18°	1321.9	1314.8	1313.3	1319.7	1329.4	1342.2
18.5°	1315.5	1308.1	1306.9	1313.3	1323.4	1336.3
19°	1309.1	1301.5	1299.7	1307.1	1317.3	1330.3
19.5°	1302.7	1294.8	1293.1	1300.5	1311.1	1324.4
20°	1296.0	1287.6	1286.1	1293.8	1304.4	1318.2
20.5°	1288.9	1280.2	1279.0	1287.1	1297.8	1311.6
21°	1282.0	1272.8	1271.6	1279.7	1290.8	1304.9

TEST NUMBER: P776221

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1259.5	1249.1	1248.4	1257.8	1269.1	1283.7
23°	1251.8	1240.7	1240.2	1250.1	1261.7	1276.3
23.5°	1243.7	1232.6	1232.1	1242.4	1254.0	1268.6
24°	1235.5	1223.7	1223.7	1234.3	1246.1	1260.7
24.5°	1227.1	1214.8	1214.8	1226.1	1238.0	1252.8
25°	1218.5	1205.7	1205.9	1217.8	1229.9	1244.4
25.5°	1209.9	1196.5	1197.0	1209.4	1221.2	1236.0
26°	1200.7	1187.1	1187.9	1200.5	1212.8	1227.6
26.5°	1191.6	1177.8	1178.5	1191.6	1203.9	1218.7
27°	1182.4	1167.9	1168.9	1182.7	1195.0	1209.9
27.5°	1172.8	1157.8	1159.2	1173.6	1185.7	1200.2
28°	1163.2	1147.6	1149.1	1163.9	1176.3	1191.1
28.5°	1153.3	1137.3	1139.2	1154.5	1166.9	1181.0
29°	1143.4	1126.9	1129.1	1144.7	1157.5	1171.8
29.5°	1133.3	1116.5	1118.7	1134.8	1147.4	1161.5
30°	1122.9	1105.9	1108.1	1124.9	1137.5	1151.8
30.5°	1112.6	1095.0	1097.8	1114.5	1127.4	1141.2
31°	1102.2	1084.2	1087.1	1104.4	1117.0	1131.3
31.5°	1091.6	1073.1	1076.0	1093.8	1106.6	1120.7
32°	1081.0	1061.7	1065.2	1083.2	1096.0	1110.3
32.5°	1070.3	1050.4	1054.5	1072.1	1085.4	1099.2
33°	1059.2	1038.7	1043.4	1061.5	1074.8	1088.9
33.5°	1048.1	1026.9	1031.8	1050.4	1063.7	1077.8
34°	1036.8	1015.0	1020.7	1039.2	1053.3	1066.6
34.5°	1025.7	1002.4	1008.9	1027.4	1042.2	1054.5
35°	1014.1	989.4	997.3	1016.3	1031.1	1043.4
35.5°	1002.4	963.2	985.2	1004.9	1020.0	1031.8
36°	990.6	933.3	973.3	993.1	1008.6	1019.7
36.5°	978.5	899.7	960.2	981.5	996.8	1007.1
37°	965.7	866.2	942.0	969.9	985.2	985.9
37.5°	950.6	831.6	916.0	958.0	973.3	960.5
38°	925.2	796.0	884.2	946.2	961.2	926.4
38.5°	894.6	759.5	851.3	934.3	949.4	892.3
39°	862.2	722.0	820.5	922.7	936.5	859.2
39.5°	829.6	684.2	787.1	910.8	916.3	825.7
40°	797.0	649.1	753.1	899.2	891.8	790.6
40.5°	762.7	614.3	717.3	887.1	860.2	754.1
41°	727.4	580.7	682.5	875.3	828.6	716.8
41.5°	691.3	546.2	647.6	863.4	798.0	680.0
42°	656.3	513.1	613.8	851.8	766.4	644.9
42.5°	621.7	479.0	581.5	840.0	734.8	611.6
43°	588.1	446.7	550.4	828.1	701.5	577.3
43.5°	555.8	415.5	518.0	815.8	667.6	543.2

TEST NUMBER: P776221

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	459.0	329.4	423.2	757.3	569.6	444.4
45.5°	427.9	302.5	393.8	729.6	539.0	413.1
46°	397.8	278.0	365.9	701.2	507.9	383.7
46.5°	368.9	256.3	338.3	674.3	476.8	354.8
47°	341.0	238.3	311.4	646.4	445.7	326.7
47.5°	314.3	223.0	286.7	617.8	416.0	301.2
48°	288.1	210.4	263.7	583.2	387.4	276.8
48.5°	265.2	199.3	243.9	547.4	359.7	255.1
49°	243.9	189.1	227.2	509.6	332.6	236.5
49.5°	230.4	179.0	212.6	474.1	307.4	220.7
50°	217.3	169.1	200.5	440.2	282.2	207.2
50.5°	204.2	159.0	189.9	408.4	259.5	195.8
51°	190.9	151.1	180.0	377.0	238.8	185.2
51.5°	177.8	145.9	170.1	348.9	221.2	174.6
52°	167.7	143.0	160.2	321.7	205.9	164.2
52.5°	158.0	140.5	150.9	295.1	192.8	155.1
53°	148.4	138.3	143.7	271.1	181.5	148.4
53.5°	140.7	136.0	140.2	249.4	171.1	145.2
54°	136.5	133.6	137.5	228.6	160.7	142.5
54.5°	134.1	131.4	135.3	211.6	151.1	140.2
55°	131.6	129.1	132.8	195.1	143.0	138.0
55.5°	129.4	126.9	130.6	180.7	138.0	135.6
56°	127.2	124.9	128.4	167.7	135.6	133.3
56.5°	124.9	122.7	126.2	157.5	133.1	131.1
57°	123.0	120.7	123.9	148.4	130.9	128.9
57.5°	120.7	118.5	122.0	141.0	128.6	126.7
58°	118.8	116.5	120.0	134.6	126.4	124.7
58.5°	116.8	114.6	117.8	129.4	124.2	122.5
59°	114.6	112.6	115.8	124.4	122.2	120.5
59.5°	112.6	110.6	113.8	120.2	120.0	118.3
60°	110.6	108.4	111.6	117.0	117.8	116.3
60.5°	108.6	106.4	109.9	114.6	115.8	114.1
61°	106.7	104.4	107.9	112.3	113.6	112.1
61.5°	104.4	102.5	105.9	110.1	111.6	109.9
62°	102.5	100.2	103.7	107.7	109.4	107.9
62.5°	100.5	98.3	101.7	105.4	107.4	105.7
63°	98.3	96.3	99.8	103.2	105.2	103.5
63.5°	96.3	94.1	97.5	101.0	103.0	101.5
64°	94.3	92.1	95.6	98.8	100.7	99.3
64.5°	92.1	90.4	93.3	96.5	98.5	97.3
65°	90.1	88.4	91.4	94.3	96.5	95.1
65.5°	87.9	86.4	88.9	92.3	94.3	92.8
66°	85.9	84.4	87.2	90.1	92.1	90.9



TEST NUMBER: P776221

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	79.8	78.3	81.5	83.5	85.7	84.7
68°	77.8	76.3	79.3	81.5	83.5	82.7
68.5°	75.6	74.3	77.3	79.3	81.2	80.7
69°	73.6	72.3	75.3	77.0	79.3	78.8
69.5°	71.4	70.4	73.1	74.8	77.0	76.5
70°	69.4	68.4	71.1	72.6	74.8	74.6
70.5°	67.4	66.4	68.9	70.4	72.6	72.3
71°	65.4	64.4	66.9	68.1	70.6	70.4
71.5°	63.2	62.5	64.9	65.9	68.4	68.1
72°	61.2	60.2	62.7	63.7	66.2	66.2
72.5°	59.0	58.3	60.5	61.5	63.9	63.9
73°	57.0	56.3	58.5	59.5	61.7	62.0
73.5°	54.8	54.1	56.3	57.3	59.5	59.8
74°	52.8	52.1	54.3	55.1	57.5	57.8
74.5°	50.6	50.1	52.1	52.8	55.3	55.6
75°	48.6	48.1	49.9	50.6	53.1	53.6
75.5°	46.4	45.9	47.9	48.4	50.6	51.4
76°	44.4	43.9	45.7	46.2	48.6	49.1
76.5°	42.2	42.0	43.7	43.9	46.4	47.2
77°	40.2	40.0	41.5	42.0	44.2	44.9
77.5°	38.0	38.0	39.5	39.8	42.0	43.0
78°	36.0	36.0	37.3	37.5	39.8	40.7
78.5°	33.8	33.8	35.3	35.3	37.5	38.8
79°	31.9	31.9	33.1	33.1	35.3	36.5
79.5°	29.6	29.9	30.9	30.9	33.1	34.6
80°	27.7	27.9	28.9	28.9	30.9	32.3
80.5°	25.4	25.9	26.7	26.7	28.6	30.4
81°	23.5	24.0	24.7	24.4	26.4	28.4
81.5°	21.5	22.0	22.7	22.5	24.2	26.2
82°	19.5	20.0	20.5	20.5	22.0	24.2
82.5°	17.5	17.8	18.5	18.5	20.0	22.0
83°	15.3	15.8	16.5	16.5	17.8	20.0
83.5°	13.3	13.8	14.3	14.6	15.3	17.8
84°	11.4	11.9	12.3	12.8	13.3	15.8
84.5°	9.6	10.1	10.4	10.9	11.1	13.8
85°	7.7	8.1	8.4	9.1	9.4	11.6
85.5°	5.7	6.2	6.7	7.4	7.9	9.6
86°	3.7	4.4	4.7	5.7	6.4	8.1
86.5°	2.0	2.5	2.7	4.0	4.7	6.4
87°	0.5	0.7	1.0	2.0	3.2	4.9
87.5°	0.0	0.0	0.2	0.7	2.0	3.5
88°	0.0	0.0	0.0	0.0	0.7	2.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.7



TEST NUMBER: P776221

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3000K

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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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Scaled Data Report



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Scaled Data Report





21.5°	1298.0	1318.2	1344.2	1359.0	1365.7	1369.6	1366.4	1354.5	1338.2	1321.2	1294.8
22°	1290.8	1311.8	1338.7	1353.6	1360.5	1364.7	1361.5	1349.1	1332.3	1314.8	1287.9



44°	509.6	647.9	925.4	874.1	709.6	828.9	963.7	759.5	565.2	650.1	837.5
44.5°	476.5	613.6	913.3	839.0	673.1	792.6	952.1	724.4	531.3	614.3	825.4



66.5°	88.9	93.3	98.3	97.8	93.3	95.1	94.6	91.9	86.4	87.4	84.4
67°	86.9	91.1	96.0	95.8	91.4	93.1	92.6	89.9	84.4	85.4	82.5



89°	0.0	1.5	5.2	7.4	6.9	6.4	4.7	2.2	0.7	0.0	0.0
89.5°	0.0	0.2	3.7	5.4	5.2	4.7	3.0	1.0	0.0	0.0	0.0

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21.5°	1274.5	1264.9	1264.2	1272.6	1283.9	1298.0
22°	1267.1	1257.0	1256.0	1265.4	1276.8	1290.8



44°	523.9	386.2	485.7	802.7	634.3	509.6
44.5°	491.6	356.5	453.6	780.7	601.5	476.5

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Scaled Data Report



66.5°	83.9	82.5	85.2	87.9	89.9	88.9
67°	82.0	80.5	83.2	85.7	87.7	86.9

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Peachtree City, GA 30269

Scaled Data Report



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

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Scaled Data Report



(END OF REPORT)