

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: P775942

Luminaire Tested: HCDJBL1525CSD-HCD41TRMB-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B031)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD41TRMB-2500lm-3500K
Description: 4 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

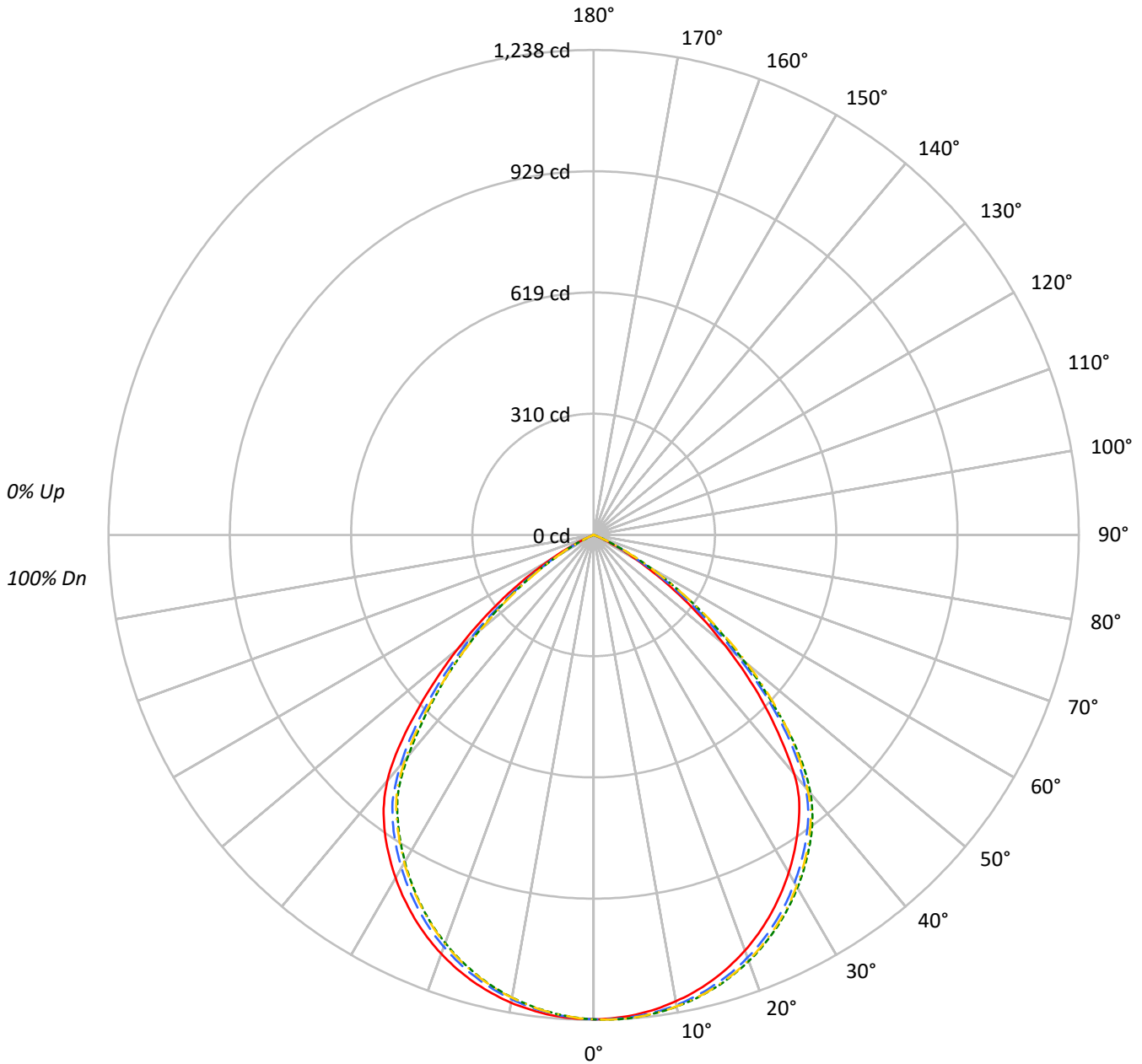
Lumens per Lamp: N/A
Luminaire Lumens: 2290.5 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.26
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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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	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57			
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51			
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	155638	155638	155638	155638
5°	155285	156170	155475	154641
10°	154474	156238	154960	153234
15°	153181	155930	153976	151188
20°	151216	155074	152355	148431
25°	148358	153468	150066	144761
30°	144650	151132	146903	139986
35°	139823	147842	142711	134123
40°	130672	141433	134517	120947
45°	110222	123855	114031	99330
50°	85305	98422	88848	74889
55°	58561	70497	61479	49477
60°	31689	41556	34281	24994
65°	9708	15008	10691	6730
70°	920	1030	920	920
75°	972	972	972	972
80°	942	942	725	942
85°	433	722	433	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°

Vertical Angle: 45°

Luminance: 124834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	5.1
10°-20°	332.3	14.5
20°-30°	494.3	21.6
30°-40°	571.3	24.9
40°-50°	482.1	21.0
50°-60°	245.3	10.7
60°-70°	45.9	2.0
70°-80°	2.0	0.1
80°-90°	0.6	0.0
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°	943.4	41.2
0°-40°	1514.7	66.1
0°-60°	2242.0	97.9
0°-90°	2290.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1237	1237	1237	1237	1237	
5°	1229	1236	1231	1224	1229	117
15°	1176	1197	1182	1160	1176	331
25°	1068	1105	1081	1042	1068	492
35°	910	962	929	873	910	567
45°	619	696	641	558	619	474
55°	267	321	280	226	267	241
65°	33	50	36	23	33	43
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	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°	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7
0.5°	1236.4	1236.4	1236.9	1237.2	1237.4	1237.4	1237.4	1236.4	1236.2	1236.4	1236.2
1°	1236.2	1236.7	1237.2	1237.4	1237.7	1237.7	1237.7	1236.7	1236.2	1236.2	1235.7
1.5°	1235.7	1236.4	1237.2	1237.7	1237.7	1237.7	1237.9	1236.9	1235.9	1235.4	1234.9
2°	1235.2	1236.2	1236.9	1237.9	1237.9	1238.4	1238.2	1236.9	1235.7	1234.9	1233.9
2.5°	1234.2	1235.4	1236.7	1237.9	1237.9	1238.2	1237.7	1236.7	1235.2	1234.2	1233.2
3°	1233.4	1234.9	1236.2	1237.4	1237.9	1238.2	1237.7	1235.9	1234.7	1233.4	1231.9
3.5°	1232.4	1234.2	1235.9	1237.2	1237.4	1237.9	1237.7	1235.7	1233.7	1232.2	1230.9
4°	1231.7	1233.4	1235.2	1236.7	1237.2	1237.7	1237.2	1235.4	1232.9	1231.2	1229.7
4.5°	1230.4	1232.4	1234.7	1235.9	1236.7	1237.2	1236.4	1234.9	1231.9	1229.7	1227.9
5°	1229.2	1231.4	1233.7	1235.4	1236.2	1236.4	1235.7	1233.9	1230.7	1228.4	1226.4
5.5°	1227.7	1230.2	1232.7	1234.7	1235.2	1235.9	1235.2	1232.9	1229.7	1227.2	1224.6
6°	1225.9	1228.9	1231.9	1233.7	1234.4	1234.9	1234.2	1231.9	1228.2	1225.4	1222.9
6.5°	1224.1	1227.4	1230.4	1232.7	1233.4	1233.9	1232.9	1230.9	1226.7	1223.9	1221.1
7°	1222.6	1225.9	1229.2	1231.7	1232.2	1232.7	1231.7	1229.7	1224.9	1221.6	1219.1
7.5°	1220.6	1224.1	1227.7	1230.2	1230.7	1231.7	1230.4	1228.2	1223.1	1219.9	1216.9
8°	1218.6	1222.4	1226.2	1228.9	1229.4	1230.2	1228.9	1226.4	1221.1	1217.6	1214.6
8.5°	1216.4	1220.4	1224.4	1227.2	1227.9	1228.7	1227.4	1224.6	1219.1	1215.4	1212.1
9°	1213.9	1218.4	1222.6	1225.4	1226.2	1227.2	1225.9	1222.9	1217.1	1213.1	1209.3
9.5°	1211.4	1216.1	1220.6	1223.6	1224.4	1225.4	1223.9	1221.1	1215.1	1210.6	1206.6
10°	1208.8	1213.9	1218.4	1221.9	1222.6	1223.6	1222.1	1219.1	1212.6	1208.1	1203.8
10.5°	1206.1	1211.4	1216.1	1219.6	1220.6	1221.6	1219.9	1216.9	1210.1	1205.3	1200.8
11°	1203.3	1208.6	1213.9	1217.4	1218.4	1219.4	1217.9	1214.6	1207.6	1202.3	1197.8
11.5°	1200.6	1205.8	1211.4	1215.1	1216.1	1217.1	1215.4	1212.1	1204.8	1199.3	1194.5
12°	1197.1	1203.1	1208.6	1212.6	1213.9	1214.6	1213.1	1209.3	1201.8	1196.3	1191.0
12.5°	1194.0	1200.1	1205.8	1210.1	1211.4	1212.1	1210.3	1206.6	1198.6	1193.0	1187.5
13°	1190.5	1197.1	1202.8	1207.6	1208.6	1209.6	1207.8	1204.1	1195.5	1189.5	1183.8
13.5°	1187.3	1193.8	1199.8	1204.6	1205.8	1206.6	1204.8	1201.1	1192.3	1186.0	1180.0
14°	1183.5	1190.3	1196.8	1201.6	1202.8	1204.1	1202.1	1197.8	1188.8	1182.5	1176.2
14.5°	1179.7	1186.8	1193.3	1198.6	1199.8	1200.8	1198.8	1194.5	1185.5	1178.7	1172.0
15°	1175.7	1183.0	1189.8	1195.3	1196.8	1197.8	1195.5	1191.3	1181.8	1174.7	1167.7
15.5°	1171.7	1178.7	1186.5	1191.8	1193.5	1194.3	1192.0	1187.5	1178.0	1170.7	1163.7
16°	1167.5	1175.2	1182.8	1188.3	1190.0	1191.0	1188.5	1184.0	1174.0	1166.4	1159.4
16.5°	1163.2	1171.2	1178.7	1184.8	1186.3	1187.3	1185.0	1180.2	1170.0	1162.2	1154.7
17°	1158.9	1167.0	1175.0	1181.0	1182.8	1183.5	1181.2	1176.5	1165.7	1157.9	1149.9
17.5°	1154.2	1162.4	1171.0	1177.0	1178.7	1179.5	1177.2	1172.5	1161.2	1153.2	1144.9
18°	1149.1	1157.9	1166.4	1173.0	1174.7	1175.5	1173.2	1168.0	1156.7	1148.4	1139.9
18.5°	1144.4	1153.4	1161.9	1169.0	1170.5	1171.7	1169.0	1163.7	1152.4	1143.6	1134.8
19°	1139.4	1148.4	1157.7	1164.4	1166.4	1167.5	1164.4	1159.4	1147.6	1138.6	1129.8
19.5°	1134.3	1143.6	1152.9	1160.2	1162.2	1162.9	1159.9	1154.9	1142.9	1133.6	1124.3
20°	1129.1	1138.6	1148.1	1155.7	1157.9	1158.4	1155.4	1150.1	1137.6	1128.3	1118.8
20.5°	1123.6	1133.6	1143.4	1150.9	1153.2	1153.9	1150.6	1145.4	1132.8	1123.1	1113.0
21°	1118.0	1128.1	1138.4	1146.1	1148.6	1149.4	1145.9	1140.4	1127.3	1117.3	1107.2



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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°	1100.5	1111.5	1122.3	1130.8	1133.1	1133.8	1130.3	1124.8	1110.8	1100.0	1089.2
23°	1094.5	1105.7	1116.8	1125.6	1127.8	1128.6	1125.1	1119.3	1105.0	1094.2	1082.9
23.5°	1088.2	1099.5	1111.3	1120.3	1122.6	1122.8	1119.5	1113.5	1099.2	1087.9	1076.1
24°	1081.7	1093.5	1105.5	1114.5	1116.8	1117.5	1113.8	1108.0	1093.2	1081.7	1069.9
24.5°	1075.1	1087.4	1099.5	1108.8	1111.3	1111.5	1108.0	1102.0	1087.2	1075.4	1063.1
25°	1068.4	1081.2	1093.2	1102.7	1105.2	1105.7	1102.0	1096.0	1080.7	1068.6	1056.3
25.5°	1061.6	1074.6	1087.2	1097.0	1099.5	1099.7	1096.0	1089.9	1074.1	1062.1	1049.1
26°	1054.8	1067.9	1080.7	1090.7	1093.5	1093.7	1089.9	1083.7	1067.6	1055.1	1042.0
26.5°	1048.0	1061.1	1074.4	1084.4	1087.2	1087.2	1083.4	1077.1	1060.8	1048.0	1034.8
27°	1040.8	1054.3	1067.6	1078.1	1080.7	1080.9	1076.9	1070.6	1054.1	1041.3	1027.5
27.5°	1033.5	1047.3	1061.1	1071.9	1074.1	1074.4	1070.4	1063.9	1047.3	1034.0	1020.0
28°	1026.0	1040.3	1054.3	1065.1	1067.9	1068.1	1063.9	1057.1	1040.5	1026.7	1012.2
28.5°	1018.4	1032.7	1047.0	1058.3	1061.1	1061.1	1057.1	1050.1	1033.2	1019.5	1004.7
29°	1010.9	1025.5	1039.8	1051.3	1054.3	1054.1	1049.8	1043.3	1025.7	1011.7	997.1
29.5°	1003.1	1017.9	1032.7	1044.5	1047.3	1047.0	1042.8	1036.3	1018.4	1004.1	988.8
30°	995.4	1010.7	1025.5	1037.5	1040.0	1040.0	1035.5	1028.7	1010.9	996.4	980.6
30.5°	987.3	1002.9	1017.9	1030.2	1033.0	1032.2	1028.2	1021.5	1003.4	988.6	972.8
31°	979.3	995.1	1010.4	1022.5	1025.5	1025.0	1020.5	1013.9	995.4	980.6	964.5
31.5°	970.8	987.1	1002.6	1015.2	1017.9	1017.4	1012.9	1006.4	987.3	972.3	956.0
32°	962.5	979.1	994.9	1007.7	1010.4	1009.9	1005.4	998.6	979.3	964.3	947.7
32.5°	954.0	970.5	986.8	999.9	1002.4	1001.9	997.6	990.9	971.3	955.7	938.7
33°	945.5	962.3	978.8	991.9	994.9	993.9	989.9	982.8	963.3	947.5	930.1
33.5°	936.9	953.7	970.5	984.1	986.8	985.8	981.8	974.5	954.7	938.9	921.1
34°	928.1	945.5	962.5	975.8	978.8	978.1	973.3	966.5	946.2	929.9	912.6
34.5°	919.1	936.7	954.0	967.8	970.5	969.5	964.8	958.0	937.7	921.1	903.1
35°	910.1	927.9	945.2	959.0	962.3	961.3	956.2	949.2	928.9	912.1	893.8
35.5°	900.5	918.9	936.4	950.7	953.5	952.7	947.7	940.7	919.9	902.8	883.7
36°	891.5	909.8	927.6	941.7	944.9	943.9	938.7	931.9	910.3	893.0	874.0
36.5°	881.7	900.5	918.6	932.9	936.2	934.9	929.6	922.6	900.5	883.0	863.7
37°	872.0	891.0	909.3	923.6	926.6	925.4	920.1	913.1	890.8	873.0	852.9
37.5°	861.4	880.7	899.3	913.8	916.9	915.6	910.6	903.3	880.2	861.9	839.8
38°	850.9	870.4	889.0	904.1	906.8	905.6	900.5	893.0	868.9	849.9	826.3
38.5°	838.8	858.9	878.5	893.5	896.3	894.8	889.0	882.2	857.4	836.8	812.0
39°	825.8	846.1	866.9	883.0	885.0	883.0	876.5	870.4	845.1	823.0	797.4
39.5°	811.5	832.1	853.9	871.5	873.5	869.9	863.2	857.7	832.1	809.0	782.1
40°	795.4	817.3	839.8	859.2	860.9	856.1	849.6	843.9	818.8	793.9	766.6
40.5°	777.6	802.2	825.5	846.1	847.4	842.4	835.3	829.8	804.0	778.6	750.3
41°	760.3	786.7	810.7	832.1	833.3	827.8	821.0	815.3	788.4	763.1	734.0
41.5°	742.8	770.6	795.2	817.3	818.3	813.3	806.7	800.0	771.4	746.8	717.2
42°	725.0	753.6	779.9	801.2	802.2	798.2	792.2	784.4	754.6	730.2	699.9
42.5°	707.4	736.5	763.6	784.7	786.2	783.2	777.1	768.9	736.2	713.2	681.8
43°	690.1	719.2	747.0	767.8	769.4	767.6	761.6	751.8	717.4	695.4	663.7
43.5°	672.3	701.4	730.0	750.0	751.8	751.5	745.5	735.2	698.4	677.0	645.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	619.3	646.9	675.5	692.8	695.9	701.4	696.1	682.1	640.7	620.9	590.5
45.5°	601.5	628.4	656.2	672.3	676.3	684.1	678.5	664.2	621.6	601.5	572.2
46°	583.5	610.3	637.4	652.5	656.7	666.0	661.2	645.2	602.5	581.5	553.9
46.5°	565.2	591.8	617.8	632.6	637.2	648.2	643.9	627.1	583.2	561.7	535.3
47°	546.3	573.4	598.5	612.3	617.1	629.4	625.6	607.6	564.9	541.8	517.3
47.5°	527.5	555.1	579.0	591.8	597.8	610.8	607.8	588.5	546.3	522.3	498.7
48°	509.0	536.6	558.4	571.9	578.7	592.0	589.0	569.4	527.8	502.7	480.6
48.5°	490.2	517.8	538.3	552.1	559.6	573.2	570.9	551.9	509.2	482.6	462.6
49°	471.8	499.7	518.0	532.6	540.3	554.1	551.9	532.1	490.7	463.3	444.3
49.5°	453.5	481.1	498.2	513.0	521.3	534.8	533.6	513.2	472.1	444.0	425.9
50°	435.7	462.3	478.1	494.2	502.7	515.2	514.2	494.4	453.8	425.4	407.6
50.5°	417.7	443.5	458.3	474.4	483.9	495.9	495.2	476.1	435.5	406.4	389.1
51°	400.4	424.4	438.2	455.5	465.1	476.6	475.4	458.1	417.9	388.3	371.3
51.5°	382.5	406.1	419.2	436.5	446.5	457.5	457.0	440.0	399.6	370.3	353.4
52°	365.5	387.3	400.4	418.2	428.2	438.2	437.7	421.9	381.8	352.7	335.6
52.5°	348.7	369.2	382.0	398.9	409.6	419.4	418.7	403.6	364.5	335.4	318.1
53°	331.9	351.2	363.2	381.5	391.6	400.6	399.9	386.1	347.2	318.6	300.8
53.5°	315.1	333.4	345.2	363.5	373.8	382.0	381.3	368.5	329.9	301.8	284.0
54°	298.5	315.3	327.6	345.7	356.0	363.7	362.5	351.2	313.1	286.0	267.7
54.5°	282.5	297.8	310.3	327.4	338.1	345.4	344.2	333.9	296.8	270.9	251.9
55°	266.9	281.0	293.5	311.1	321.3	327.6	326.4	317.1	280.2	254.9	236.0
55.5°	251.4	263.9	276.7	294.5	304.5	310.0	308.0	300.0	264.1	239.3	221.8
56°	236.0	247.8	260.6	277.7	287.5	292.7	290.5	284.0	248.3	225.3	207.2
56.5°	221.0	232.0	244.8	260.9	270.9	275.4	273.4	267.2	233.5	211.2	192.9
57°	206.4	216.2	229.5	246.1	254.9	259.1	256.9	251.4	219.0	197.4	178.4
57.5°	192.2	201.2	214.5	230.5	239.3	242.8	240.6	236.0	204.4	183.4	165.1
58°	177.9	186.6	199.4	215.5	224.3	227.3	225.3	221.0	189.6	169.3	152.0
58.5°	164.6	172.6	185.1	200.9	209.2	211.7	209.7	205.7	175.1	156.8	139.7
59°	151.0	159.3	171.6	186.9	194.2	196.2	194.4	190.4	161.5	143.7	127.9
59.5°	138.5	146.2	158.3	173.3	179.4	180.6	179.1	175.3	149.0	131.9	116.6
60°	125.9	133.5	145.2	160.0	165.1	166.6	164.8	161.5	136.2	120.2	105.9
60.5°	114.4	121.7	132.7	147.5	151.8	152.8	151.3	148.0	123.9	109.1	95.1
61°	102.8	109.9	121.2	134.7	138.5	139.5	137.7	134.5	112.1	98.1	85.3
61.5°	92.1	99.1	109.6	122.7	125.7	126.4	124.9	121.9	101.3	88.0	76.3
62°	82.8	88.5	98.8	111.4	113.4	114.1	112.9	109.6	90.1	78.0	67.0
62.5°	73.7	80.0	88.5	100.1	101.3	102.3	101.1	97.3	79.8	68.7	58.7
63°	64.5	71.5	80.0	89.6	90.1	91.1	89.8	85.8	69.7	60.0	50.9
63.5°	55.4	63.0	71.5	80.3	79.3	80.3	79.0	75.3	60.5	51.9	43.9
64°	46.4	54.4	63.0	71.0	69.0	70.0	69.2	65.2	51.7	44.1	37.1
64.5°	39.1	46.2	54.4	62.0	59.2	60.5	59.7	55.7	43.6	37.1	31.1
65°	32.6	39.1	45.9	52.7	50.4	51.7	50.9	46.9	35.9	32.1	26.6
65.5°	27.1	32.9	38.9	43.6	42.1	43.1	42.6	39.1	30.1	26.8	22.3
66°	22.1	26.8	32.4	36.1	34.6	35.6	35.1	33.4	24.6	21.6	18.1



TEST NUMBER: P775942

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.8	13.3	16.8	17.8	18.8	19.6	19.1	16.6	7.5	8.3	6.8
68°	9.0	10.0	12.8	13.3	13.5	14.0	13.5	11.0	4.5	5.8	4.8
68.5°	7.5	8.0	9.3	9.8	8.5	8.8	8.3	7.5	3.0	3.8	3.5
69°	5.8	6.3	7.5	8.0	5.8	6.0	5.5	5.0	2.8	3.0	2.8
69.5°	4.3	4.5	6.0	6.3	4.0	4.0	3.8	3.5	2.8	2.8	2.8
70°	2.5	2.8	4.3	4.3	2.8	2.8	2.8	2.8	2.5	2.5	2.5
70.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
71°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
71.5°	2.3	2.3	2.3	2.5	2.3	2.3	2.5	2.5	2.5	2.5	2.5
72°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
73°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
73.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.3	2.0	2.0	2.3
74°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
74.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	1.8	1.8	1.8
76°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
76.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5	1.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
78°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
78.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.5
79°	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3
79.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.3
80.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.3
81°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0
81.5°	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	0.8	0.8	1.0
82°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.0
82.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.5	0.8	0.8
83°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.5	0.5	0.8
83.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.8
84°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.3	0.3	0.5
84.5°	0.3	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.3	0.3	0.5
85°	0.3	0.5	0.5	0.8	0.5	0.8	0.5	0.5	0.3	0.3	0.5
85.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0	0.3	0.5
86°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.0	0.3	0.3
86.5°	0.0	0.3	0.5	0.5	0.3	0.5	0.5	0.3	0.0	0.3	0.3
87°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3
87.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
88°	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775942

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775942

CATALOG NUMBER: HCDJBLS1525CSD-HCD41TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1236.7	1236.7	1236.7	1236.7	1236.7	1236.7
0.5°	1235.9	1235.9	1236.4	1236.2	1235.7	1236.4
1°	1235.2	1235.2	1235.7	1235.4	1235.2	1236.2
1.5°	1234.2	1234.2	1234.7	1234.7	1234.4	1235.7
2°	1233.4	1233.2	1233.4	1233.7	1233.2	1235.2
2.5°	1232.4	1231.9	1232.4	1232.2	1232.2	1234.2
3°	1231.2	1230.7	1230.9	1230.9	1231.2	1233.4
3.5°	1229.7	1229.4	1229.4	1229.7	1229.9	1232.4
4°	1228.2	1227.9	1227.9	1228.2	1228.7	1231.7
4.5°	1226.4	1226.2	1226.2	1226.4	1227.2	1230.4
5°	1224.6	1224.1	1224.1	1224.6	1225.4	1229.2
5.5°	1222.9	1222.4	1222.1	1222.6	1223.9	1227.7
6°	1220.9	1220.1	1219.9	1220.9	1221.9	1225.9
6.5°	1218.9	1218.1	1217.6	1218.6	1219.9	1224.1
7°	1216.6	1215.9	1215.6	1216.4	1217.9	1222.6
7.5°	1214.1	1213.4	1213.1	1213.9	1215.9	1220.6
8°	1211.6	1210.6	1210.6	1211.1	1213.4	1218.6
8.5°	1208.8	1208.1	1207.8	1208.6	1210.6	1216.4
9°	1206.1	1205.1	1204.8	1205.8	1207.8	1213.9
9.5°	1203.3	1202.1	1201.8	1202.8	1205.1	1211.4
10°	1200.3	1199.1	1198.6	1199.8	1202.1	1208.8
10.5°	1197.1	1196.0	1195.5	1196.8	1199.3	1206.1
11°	1193.8	1192.8	1192.3	1193.5	1195.8	1203.3
11.5°	1190.3	1189.0	1188.8	1189.8	1192.5	1200.6
12°	1186.8	1185.5	1185.0	1186.3	1189.3	1197.1
12.5°	1183.3	1181.8	1181.2	1182.5	1185.5	1194.0
13°	1179.2	1177.7	1177.0	1178.7	1181.8	1190.5
13.5°	1175.2	1173.7	1173.0	1174.7	1178.0	1187.3
14°	1171.2	1169.5	1169.0	1170.7	1174.0	1183.5
14.5°	1167.0	1165.2	1164.4	1166.4	1170.0	1179.7
15°	1162.4	1160.4	1159.9	1161.7	1165.4	1175.7
15.5°	1157.9	1155.9	1155.4	1157.2	1160.9	1171.7
16°	1153.2	1151.1	1150.9	1152.7	1156.4	1167.5
16.5°	1148.6	1146.4	1145.9	1147.9	1151.6	1163.2
17°	1143.6	1141.1	1140.6	1142.9	1146.9	1158.9
17.5°	1138.6	1136.1	1135.6	1137.9	1141.9	1154.2
18°	1133.3	1130.8	1130.3	1132.3	1137.1	1149.1
18.5°	1127.8	1125.3	1124.8	1127.1	1131.8	1144.4
19°	1122.6	1119.8	1119.0	1121.5	1126.1	1139.4
19.5°	1116.8	1114.0	1113.5	1115.8	1120.8	1134.3
20°	1111.0	1108.3	1107.7	1110.0	1115.5	1129.1
20.5°	1105.2	1102.2	1101.5	1104.0	1109.5	1123.6
21°	1099.2	1096.0	1095.5	1098.0	1103.5	1118.0



TEST NUMBER: P775942

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1080.2	1077.1	1076.1	1078.7	1085.2	1100.5
23°	1073.6	1070.6	1069.6	1072.4	1078.4	1094.5
23.5°	1066.9	1063.6	1062.8	1065.6	1071.6	1088.2
24°	1060.1	1056.6	1055.6	1058.8	1065.1	1081.7
24.5°	1053.1	1049.6	1048.5	1051.6	1058.3	1075.1
25°	1046.0	1042.5	1041.5	1044.5	1051.6	1068.4
25.5°	1038.8	1035.0	1034.0	1037.0	1044.3	1061.6
26°	1031.5	1027.5	1026.5	1029.7	1037.0	1054.8
26.5°	1023.7	1020.0	1018.9	1022.5	1029.5	1048.0
27°	1016.4	1012.2	1011.4	1014.7	1022.0	1040.8
27.5°	1008.4	1004.4	1003.4	1006.9	1014.4	1033.5
28°	1000.6	996.1	995.4	998.9	1006.7	1026.0
28.5°	992.6	988.3	987.3	991.1	998.6	1018.4
29°	984.6	980.3	979.1	982.8	990.9	1010.9
29.5°	976.1	972.0	970.8	974.8	982.8	1003.1
30°	968.0	963.3	962.5	966.3	974.8	995.4
30.5°	959.2	955.0	953.7	958.0	966.3	987.3
31°	950.7	946.2	944.9	949.0	957.7	979.3
31.5°	942.2	937.7	936.2	940.7	949.5	970.8
32°	933.4	928.6	927.1	932.2	940.9	962.5
32.5°	924.4	919.9	918.6	923.1	932.4	954.0
33°	915.1	910.8	909.6	913.8	923.4	945.5
33.5°	906.1	901.6	900.3	905.1	914.1	936.9
34°	896.8	892.0	891.0	896.0	905.1	928.1
34.5°	887.5	882.7	881.5	886.5	896.0	919.1
35°	877.7	873.0	872.0	876.7	886.3	910.1
35.5°	867.4	863.2	862.2	867.2	877.2	900.5
36°	857.4	852.6	851.9	857.4	867.4	891.5
36.5°	846.6	841.8	841.3	847.1	856.9	881.7
37°	834.8	830.6	830.3	835.8	846.4	872.0
37.5°	821.0	817.5	818.0	824.8	835.8	861.4
38°	806.2	803.0	803.7	811.2	822.5	850.9
38.5°	790.9	786.9	788.7	796.4	808.5	838.8
39°	774.4	770.9	772.9	781.1	793.9	825.8
39.5°	757.3	753.8	756.3	764.8	778.4	811.5
40°	740.0	736.2	739.0	748.0	762.1	795.4
40.5°	722.4	718.2	721.2	731.0	744.5	777.6
41°	705.4	700.4	703.6	713.9	726.7	760.3
41.5°	688.1	681.8	685.3	695.9	707.9	742.8
42°	670.8	664.8	667.3	678.0	689.6	725.0
42.5°	654.0	646.7	648.9	660.0	671.0	707.4
43°	636.9	629.4	630.1	641.4	651.7	690.1
43.5°	620.1	610.8	611.3	622.6	632.9	672.3



TEST NUMBER: P775942

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	567.9	558.1	554.6	564.7	577.5	619.3
45.5°	550.1	540.1	535.8	545.3	558.6	601.5
46°	532.1	522.8	518.0	526.0	540.6	583.5
46.5°	513.5	504.2	499.4	506.7	522.3	565.2
47°	495.4	487.1	481.1	487.4	504.2	546.3
47.5°	477.4	468.6	462.6	468.3	485.6	527.5
48°	459.1	451.8	445.3	449.5	467.6	509.0
48.5°	441.2	433.7	426.9	430.5	449.5	490.2
49°	423.7	416.7	409.6	412.4	431.7	471.8
49.5°	405.9	399.6	391.8	394.3	413.9	453.5
50°	388.3	382.5	374.5	376.3	396.1	435.7
50.5°	371.8	365.7	357.2	358.7	378.8	417.7
51°	355.0	348.9	340.7	341.9	361.7	400.4
51.5°	338.1	332.9	323.8	325.1	344.4	382.5
52°	321.3	316.8	307.8	308.8	328.1	365.5
52.5°	305.5	301.0	291.5	292.5	311.6	348.7
53°	289.2	285.0	276.2	277.2	295.5	331.9
53.5°	273.2	269.7	260.4	262.1	279.4	315.1
54°	257.4	254.4	245.6	247.1	263.9	298.5
54.5°	242.6	239.8	231.3	232.8	248.6	282.5
55°	228.0	225.5	217.2	219.0	234.0	266.9
55.5°	213.7	211.0	203.7	205.4	219.2	251.4
56°	199.4	196.9	190.1	192.4	204.9	236.0
56.5°	185.1	183.4	177.1	179.6	190.9	221.0
57°	170.8	170.1	164.8	167.1	177.9	206.4
57.5°	157.8	157.3	152.8	155.0	164.6	192.2
58°	144.7	144.5	141.2	143.7	152.3	177.9
58.5°	132.2	132.4	130.2	132.7	139.7	164.6
59°	120.2	120.9	119.4	121.9	128.4	151.0
59.5°	108.6	109.9	109.4	111.6	117.4	138.5
60°	97.8	99.3	99.6	102.1	106.9	125.9
60.5°	87.5	88.5	90.1	92.3	96.3	114.4
61°	77.8	80.0	82.0	84.5	86.5	102.8
61.5°	68.2	71.7	74.0	76.5	78.3	92.1
62°	59.5	63.2	66.0	68.5	69.7	82.8
62.5°	51.7	54.7	57.9	60.5	61.2	73.7
63°	44.1	46.4	49.9	52.4	52.9	64.5
63.5°	37.4	39.4	43.1	45.7	45.7	55.4
64°	31.1	33.1	36.9	39.4	39.1	46.4
64.5°	26.8	27.6	31.1	33.4	32.6	39.1
65°	22.8	22.6	26.1	27.8	27.3	32.6
65.5°	18.6	18.3	21.3	22.8	22.3	27.1
66°	14.5	14.5	16.8	18.6	17.8	22.1



TEST NUMBER: P775942

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	5.8	7.3	8.0	8.0	8.0	10.8
68°	4.3	5.8	6.3	6.8	5.8	9.0
68.5°	3.3	4.3	4.5	5.3	5.3	7.5
69°	2.8	2.8	2.8	4.0	4.5	5.8
69.5°	2.8	2.8	2.5	2.8	3.8	4.3
70°	2.5	2.5	2.5	2.5	3.0	2.5
70.5°	2.5	2.5	2.5	2.5	2.5	2.5
71°	2.5	2.5	2.5	2.5	2.3	2.5
71.5°	2.3	2.3	2.3	2.3	2.3	2.3
72°	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	2.3	2.3	2.3	2.3	2.3	2.3
73°	2.3	2.3	2.3	2.3	2.0	2.3
73.5°	2.0	2.0	2.0	2.0	2.0	2.0
74°	2.0	2.0	2.0	2.0	2.0	2.0
74.5°	2.0	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	1.8	2.0
75.5°	1.8	1.8	1.8	1.8	1.8	1.8
76°	1.8	1.8	1.8	1.8	1.8	1.8
76.5°	1.8	1.8	1.8	1.8	1.8	1.8
77°	1.8	1.8	1.8	1.8	1.5	1.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5
78°	1.5	1.5	1.5	1.5	1.5	1.5
78.5°	1.5	1.5	1.5	1.5	1.3	1.5
79°	1.5	1.5	1.5	1.3	1.3	1.3
79.5°	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.0	1.3
80.5°	1.3	1.3	1.3	1.3	1.0	1.0
81°	1.0	1.3	1.3	1.0	1.0	1.0
81.5°	1.0	1.0	1.0	1.0	0.8	1.0
82°	1.0	1.0	1.0	1.0	0.8	0.8
82.5°	1.0	1.0	1.0	0.8	0.8	0.8
83°	0.8	0.8	0.8	0.8	0.5	0.8
83.5°	0.8	0.8	0.8	0.8	0.5	0.5
84°	0.8	0.8	0.8	0.8	0.5	0.5
84.5°	0.5	0.5	0.5	0.5	0.3	0.3
85°	0.5	0.5	0.5	0.5	0.3	0.3
85.5°	0.5	0.5	0.5	0.5	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.3	0.3
86.5°	0.3	0.3	0.3	0.3	0.3	0.0
87°	0.3	0.3	0.3	0.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775942

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-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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Peachtree City, GA 30269

Scaled Data Report





21.5°	1112.3	1122.8	1133.3	1141.1	1143.4	1144.1	1140.6	1135.3	1122.0	1111.8	1101.5
22°	1106.5	1117.3	1127.8	1136.1	1138.4	1138.9	1135.8	1130.3	1116.3	1106.2	1095.5



44°	655.0	683.6	712.2	731.2	734.0	735.2	729.5	717.9	679.3	658.5	627.4
44.5°	637.2	665.0	693.6	712.2	714.7	718.7	713.4	701.1	659.7	639.9	609.1



66.5°	17.6	21.8	26.6	29.3	29.3	30.4	29.6	27.8	18.8	16.6	13.5
67°	14.0	17.3	21.3	23.1	24.1	24.8	24.3	22.1	13.3	11.3	9.3



89°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	1092.9	1089.9	1088.9	1091.7	1097.2	1112.3
22°	1086.7	1083.7	1082.7	1085.2	1091.2	1106.5



44°	602.5	593.5	592.3	603.3	614.3	655.0
44.5°	585.5	575.4	573.4	584.0	596.0	637.2



66.5°	10.5	11.5	13.0	14.5	13.8	17.6
67°	8.0	8.8	9.8	11.0	10.8	14.0

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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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)