

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: P776041

Luminaire Tested: HCDJBL51525CSD-HCD61TRMB-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B038)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD61TRMB-2500lm-3000K
Description: 6 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

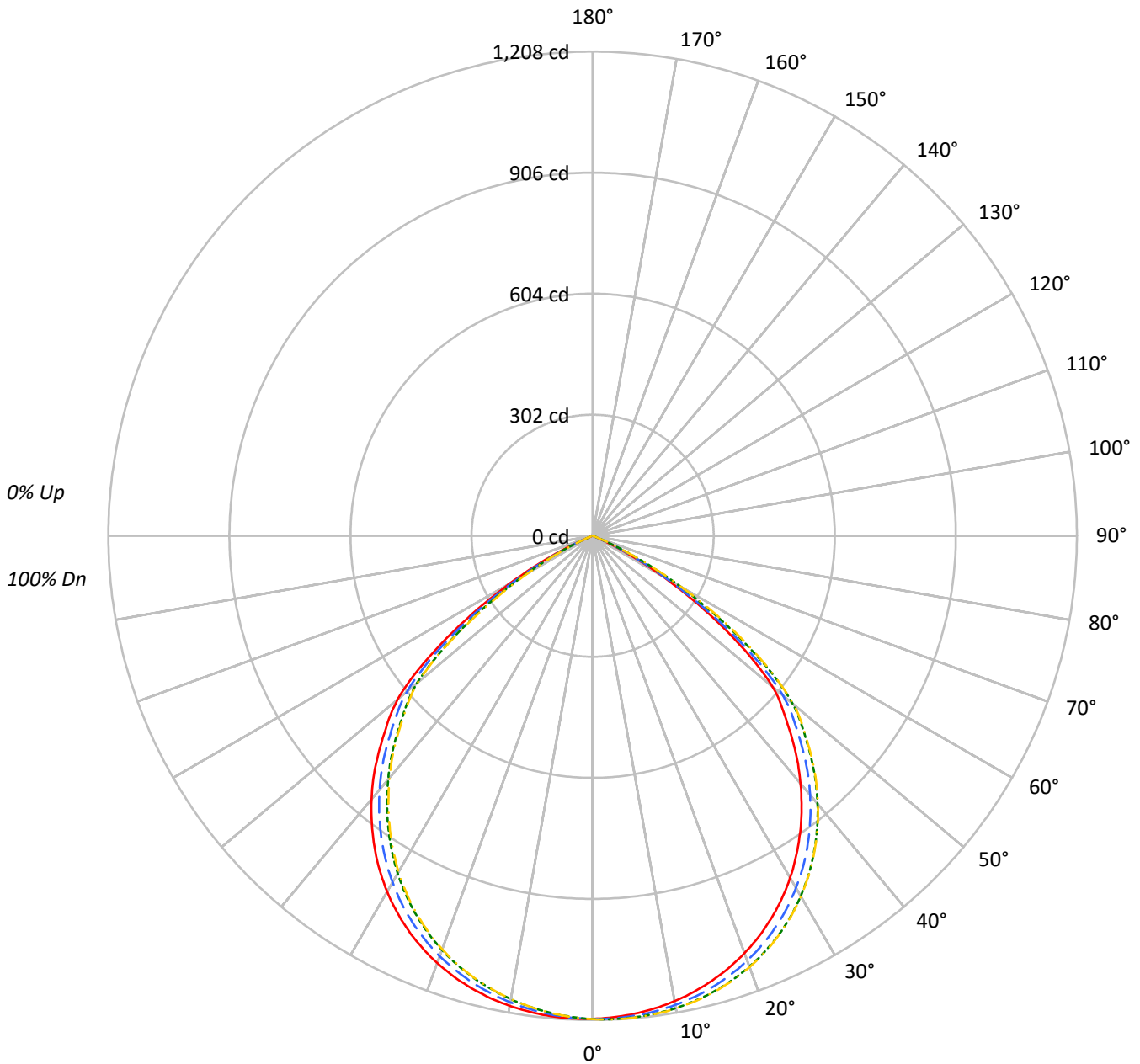
Lumens per Lamp: N/A
Luminaire Lumens: 2522.7 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	82	71	64	58	81	70	63	58	68	62	57	66	61	57	65	60	56	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43								
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	66091	66091	66091	66091
5°	65881	66371	66195	65760
10°	65613	66615	66287	65352
15°	65227	66754	66306	64847
20°	64645	66733	66156	64137
25°	63736	66427	65738	63082
30°	62370	65719	64890	61573
35°	60405	64434	63490	59475
40°	57751	62467	61386	56778
45°	54192	59440	58231	53176
50°	49943	55469	54096	48792
55°	37753	43745	42302	36596
60°	21884	27355	26292	21446
65°	6732	10377	9521	7277
70°	112	192	112	112
75°	42	106	42	42
80°	63	63	0	63
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 59650 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	4.5
10°-20°	327.1	13.0
20°-30°	492.7	19.5
30°-40°	577.9	22.9
40°-50°	559.6	22.2
50°-60°	372.3	14.8
60°-70°	78.5	3.1
70°-80°	0.4	0.0
80°-90°	0.0	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°	933.9	37.0
0°-40°	1511.8	59.9
0°-60°	2443.7	96.9
0°-90°	2522.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1206	1206	1206	1206	1206	
5°	1197	1206	1203	1195	1197	114
15°	1149	1176	1168	1143	1149	324
25°	1054	1098	1087	1043	1054	485
35°	903	963	949	889	903	563
45°	699	767	751	686	699	539
55°	395	458	443	383	395	350
65°	52	80	73	56	52	66
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P776041

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6
0.5°	1204.9	1204.9	1205.6	1206.4	1206.1	1206.4	1206.4	1206.1	1205.4	1205.1	1205.4
1°	1204.4	1204.9	1205.6	1206.6	1206.6	1206.9	1206.9	1206.4	1205.6	1204.9	1204.9
1.5°	1203.9	1204.4	1205.6	1206.4	1206.9	1207.1	1207.1	1206.6	1205.6	1204.9	1204.6
2°	1203.2	1203.9	1205.4	1206.4	1207.1	1207.6	1207.6	1206.6	1205.6	1204.4	1204.1
2.5°	1202.4	1203.4	1204.9	1206.4	1207.1	1207.6	1207.6	1206.6	1205.4	1204.1	1203.4
3°	1201.4	1202.9	1204.6	1206.1	1207.1	1207.6	1207.6	1206.6	1205.1	1203.6	1202.7
3.5°	1200.7	1202.2	1204.1	1205.9	1206.9	1207.6	1207.6	1206.6	1204.6	1202.9	1201.7
4°	1199.5	1201.2	1203.6	1205.4	1206.9	1207.4	1207.4	1206.1	1204.1	1202.4	1200.9
4.5°	1198.5	1200.4	1202.9	1204.9	1206.4	1207.1	1207.1	1205.9	1203.6	1201.7	1199.9
5°	1197.2	1199.5	1201.9	1204.4	1206.1	1206.9	1206.6	1205.4	1202.9	1200.7	1198.7
5.5°	1196.0	1198.2	1201.2	1203.9	1205.6	1206.4	1206.1	1204.6	1202.2	1199.7	1197.5
6°	1194.3	1197.0	1200.4	1203.2	1204.9	1205.9	1205.6	1203.9	1201.4	1198.5	1196.0
6.5°	1192.8	1195.7	1199.2	1202.2	1204.4	1205.1	1204.9	1203.2	1200.4	1197.5	1194.5
7°	1191.1	1194.3	1198.0	1201.2	1203.4	1204.4	1204.1	1202.2	1199.5	1196.0	1193.0
7.5°	1189.3	1192.8	1196.7	1200.2	1202.7	1203.6	1203.4	1201.2	1198.0	1194.8	1191.5
8°	1187.6	1191.3	1195.3	1199.0	1201.7	1202.7	1202.4	1200.2	1197.0	1193.3	1189.8
8.5°	1185.4	1189.6	1193.8	1197.7	1200.4	1201.7	1201.4	1199.0	1195.5	1191.5	1187.8
9°	1183.4	1187.6	1192.0	1196.2	1199.5	1200.4	1200.2	1197.7	1194.0	1190.1	1186.1
9.5°	1181.2	1185.6	1190.3	1194.8	1198.0	1199.2	1199.0	1196.2	1192.5	1188.1	1183.9
10°	1178.7	1183.6	1188.6	1193.0	1196.7	1197.7	1197.5	1195.0	1190.8	1186.1	1181.9
10.5°	1176.5	1181.4	1186.6	1191.3	1195.0	1196.2	1196.0	1193.3	1189.1	1184.1	1179.7
11°	1173.8	1179.2	1184.6	1189.6	1193.5	1194.8	1194.3	1191.5	1187.3	1182.2	1177.2
11.5°	1171.3	1176.7	1182.4	1187.3	1191.8	1193.0	1192.5	1189.6	1185.1	1179.9	1175.0
12°	1168.3	1174.3	1180.2	1185.4	1189.8	1191.3	1190.8	1187.8	1183.1	1177.7	1172.3
12.5°	1165.6	1171.5	1177.7	1183.1	1187.8	1189.3	1188.8	1185.9	1181.2	1175.2	1169.8
13°	1162.4	1168.8	1175.2	1180.9	1185.6	1187.3	1186.6	1183.6	1178.7	1172.8	1166.8
13.5°	1159.4	1165.9	1172.8	1178.5	1183.6	1185.1	1184.6	1181.4	1176.2	1170.1	1163.9
14°	1156.2	1162.9	1169.8	1176.0	1181.2	1182.9	1182.2	1178.9	1173.8	1167.3	1160.9
14.5°	1152.8	1159.9	1167.1	1173.5	1178.7	1180.4	1179.7	1176.5	1171.0	1164.4	1158.0
15°	1149.3	1156.5	1164.1	1170.6	1176.2	1178.0	1177.2	1173.8	1168.3	1161.4	1154.7
15.5°	1145.6	1153.3	1161.2	1167.8	1173.5	1175.2	1174.8	1171.3	1165.4	1158.4	1151.5
16°	1142.1	1149.8	1158.0	1164.9	1170.8	1172.5	1171.8	1168.3	1162.4	1155.2	1147.8
16.5°	1138.2	1146.1	1154.5	1161.9	1167.8	1169.6	1168.8	1165.4	1159.4	1151.8	1144.1
17°	1134.2	1142.4	1151.0	1158.4	1164.9	1166.6	1165.9	1162.2	1156.2	1148.3	1140.4
17.5°	1130.3	1138.7	1147.6	1155.0	1161.7	1163.6	1162.9	1159.2	1152.8	1144.6	1136.5
18°	1126.1	1135.0	1143.9	1151.5	1158.2	1160.2	1159.4	1155.5	1149.3	1140.9	1132.5
18.5°	1121.6	1130.8	1140.2	1148.1	1155.0	1156.7	1156.0	1152.0	1145.6	1137.2	1128.6
19°	1117.2	1126.3	1136.0	1144.4	1151.3	1153.3	1152.5	1148.3	1141.9	1133.3	1124.4
19.5°	1112.8	1122.1	1132.0	1140.4	1147.8	1149.8	1148.8	1144.6	1137.9	1129.3	1120.2
20°	1108.1	1117.9	1127.8	1136.5	1143.9	1145.9	1145.1	1140.9	1134.0	1125.1	1116.0
20.5°	1103.1	1113.2	1123.4	1132.5	1139.9	1141.9	1141.2	1136.7	1130.0	1120.7	1111.0
21°	1098.4	1108.3	1119.2	1128.3	1135.7	1137.9	1137.0	1132.8	1125.8	1116.2	1106.6



TEST NUMBER: P776041

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1082.6	1093.7	1104.8	1114.5	1122.9	1124.9	1123.9	1119.4	1112.0	1102.1	1091.5
23°	1077.2	1088.5	1099.9	1109.8	1118.2	1120.4	1119.2	1114.7	1107.3	1096.9	1086.1
23.5°	1071.5	1083.1	1095.0	1104.8	1113.5	1115.7	1114.7	1110.0	1102.6	1091.8	1080.9
24°	1065.8	1077.7	1089.5	1099.9	1108.6	1110.8	1109.5	1104.8	1097.4	1086.6	1075.5
24.5°	1059.6	1071.7	1084.1	1094.5	1103.6	1105.8	1104.6	1099.9	1092.3	1081.1	1069.8
25°	1053.7	1065.8	1078.4	1089.0	1098.2	1100.4	1099.2	1094.7	1086.8	1075.7	1063.8
25.5°	1047.5	1060.1	1072.7	1083.6	1093.0	1095.2	1094.0	1089.3	1081.4	1069.8	1057.9
26°	1041.4	1054.0	1067.1	1077.9	1087.6	1089.5	1088.5	1083.6	1075.7	1063.8	1052.0
26.5°	1034.7	1047.8	1060.9	1072.2	1081.9	1084.1	1082.9	1077.9	1070.0	1057.9	1045.6
27°	1028.3	1041.4	1054.7	1066.3	1075.9	1078.4	1076.9	1072.2	1063.8	1051.7	1039.4
27.5°	1021.4	1034.7	1048.3	1060.1	1070.3	1072.5	1071.3	1066.3	1057.9	1045.6	1033.0
28°	1014.4	1028.0	1041.9	1053.7	1064.1	1066.1	1065.1	1060.1	1051.5	1038.9	1026.3
28.5°	1007.3	1021.4	1035.4	1047.5	1057.7	1060.1	1058.9	1054.0	1045.1	1032.5	1019.6
29°	1000.1	1014.2	1028.5	1041.1	1051.2	1053.5	1052.5	1047.5	1038.9	1025.8	1012.7
29.5°	993.0	1007.3	1021.6	1034.5	1045.1	1047.0	1045.8	1040.9	1032.0	1019.1	1005.6
30°	985.3	999.9	1014.7	1027.5	1038.2	1040.4	1039.1	1034.2	1025.1	1011.7	998.4
30.5°	977.6	992.7	1007.5	1020.4	1031.2	1033.5	1032.5	1027.5	1018.2	1004.6	991.2
31°	970.0	985.1	1000.1	1013.2	1024.3	1026.3	1025.3	1020.4	1011.0	997.4	983.6
31.5°	961.8	977.4	992.7	1006.0	1017.2	1019.1	1017.9	1013.2	1003.6	990.0	976.2
32°	953.9	969.5	985.1	998.9	1009.8	1012.0	1010.7	1005.8	996.2	982.3	968.3
32.5°	945.5	961.6	977.1	991.0	1002.3	1004.3	1003.6	998.6	988.8	974.7	960.4
33°	937.4	953.4	969.5	983.3	994.9	996.9	995.9	990.7	981.1	966.8	952.4
33.5°	929.0	945.3	961.3	975.4	987.0	989.0	988.0	982.8	973.2	958.9	944.3
34°	920.3	936.9	953.2	967.5	979.1	981.3	980.1	975.2	965.0	950.7	935.9
34.5°	911.4	928.5	944.8	959.1	971.0	973.2	972.2	967.0	956.9	942.3	927.5
35°	902.6	919.8	936.1	951.0	962.8	964.8	963.8	958.9	948.7	933.7	918.9
35.5°	893.7	911.0	927.7	942.3	954.4	956.6	955.4	950.5	940.1	925.3	910.2
36°	884.3	901.8	918.9	933.9	946.0	948.0	947.0	942.1	931.5	916.9	901.3
36.5°	875.4	892.9	910.0	925.0	937.4	939.6	938.6	933.4	922.8	908.0	892.4
37°	865.7	883.8	900.8	915.9	928.7	930.7	929.7	924.8	913.9	898.8	883.3
37.5°	856.1	874.4	891.7	907.0	919.6	921.8	920.6	915.9	904.8	890.0	874.4
38°	846.2	865.0	882.3	897.6	910.7	912.7	911.7	906.5	895.9	880.3	865.0
38.5°	836.8	855.4	873.2	888.2	901.6	903.5	902.8	897.4	886.5	871.4	855.4
39°	827.2	846.0	863.5	879.1	892.2	894.2	893.4	888.2	876.9	861.8	846.0
39.5°	817.1	836.1	853.6	869.2	882.5	884.8	883.8	878.6	867.5	852.2	836.1
40°	807.0	826.0	844.0	859.3	872.9	875.1	874.1	869.2	857.8	842.3	826.5
40.5°	796.8	816.1	833.9	849.4	863.0	865.5	864.5	859.1	848.0	832.7	816.6
41°	786.5	805.7	823.8	839.1	853.2	855.6	854.6	849.2	838.1	822.5	806.5
41.5°	775.8	795.4	813.4	829.2	842.8	845.5	844.8	839.1	827.7	812.4	796.3
42°	765.5	784.7	803.0	818.6	832.7	835.4	834.4	828.9	817.6	802.0	786.0
42.5°	754.8	774.6	792.4	807.9	822.3	825.0	824.3	818.3	807.0	791.9	775.6
43°	743.7	763.7	781.5	797.1	811.7	814.1	813.6	807.7	796.3	780.8	765.0
43.5°	732.9	752.4	770.7	786.0	800.5	803.5	802.8	796.8	785.5	769.9	754.1



TEST NUMBER: P776041

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	699.0	718.5	736.3	751.6	766.7	769.4	769.2	762.7	751.1	735.8	720.0
45.5°	687.7	706.9	725.0	740.0	755.1	758.3	757.8	751.1	739.5	724.2	708.4
46°	676.5	695.8	713.6	728.7	743.7	747.2	746.4	740.0	728.2	712.6	697.3
46.5°	665.7	684.9	702.5	717.5	732.6	736.6	735.8	728.9	716.6	701.5	685.9
47°	655.1	674.1	691.6	706.4	721.5	725.5	725.0	717.8	705.4	690.1	674.8
47.5°	644.4	663.5	680.7	695.6	710.6	714.6	714.1	706.9	694.6	679.3	664.2
48°	633.8	652.6	669.6	684.4	699.8	704.0	703.5	696.3	683.7	668.4	653.6
48.5°	623.4	641.7	659.0	673.6	688.9	693.8	692.8	685.4	672.6	657.8	643.0
49°	612.1	630.1	646.7	661.2	676.8	681.7	681.0	673.6	660.7	645.7	630.8
49.5°	599.7	617.8	633.8	647.9	663.9	668.6	667.9	660.5	647.6	632.6	618.3
50°	585.6	604.2	619.7	633.1	650.4	655.1	654.6	646.9	634.3	619.2	604.4
50.5°	570.1	587.4	604.2	618.0	635.3	639.5	638.3	631.6	619.5	603.7	588.9
51°	553.0	570.1	586.9	601.2	618.7	622.7	621.7	615.5	603.2	586.9	571.8
51.5°	534.8	551.8	568.4	583.4	601.2	604.9	604.4	597.5	586.1	569.6	553.8
52°	515.3	533.0	549.3	564.2	582.2	586.9	586.4	579.2	567.4	551.1	535.8
52.5°	496.2	513.8	529.6	543.2	562.7	568.6	568.1	560.2	547.4	531.8	517.0
53°	476.5	493.5	509.1	521.9	542.4	548.8	548.8	540.7	526.9	512.0	497.7
53.5°	456.5	473.3	488.3	500.4	521.4	529.6	529.8	520.2	505.6	491.8	478.0
54°	436.0	452.8	466.6	478.4	500.2	509.6	509.8	499.7	484.6	471.3	457.5
54.5°	415.7	432.3	444.9	456.5	478.7	489.1	489.6	478.4	463.1	449.5	437.4
55°	395.0	411.3	422.9	434.2	457.7	469.1	469.6	457.5	442.6	428.8	417.2
55.5°	374.2	389.8	400.9	412.2	436.2	447.3	448.6	435.7	421.1	407.1	396.2
56°	354.0	369.0	378.7	389.8	414.2	426.1	427.3	414.7	400.4	385.3	375.9
56.5°	333.7	348.0	356.7	369.0	392.7	404.6	405.8	393.2	378.7	364.1	355.2
57°	313.0	327.0	334.7	347.3	371.5	383.1	384.6	372.5	358.4	342.6	334.7
57.5°	293.2	306.0	313.4	326.0	350.5	361.4	363.1	351.5	337.4	322.1	314.2
58°	273.7	285.5	292.2	305.5	329.5	339.9	341.6	330.7	317.4	301.1	293.9
58.5°	254.7	265.0	271.2	285.3	309.0	318.6	320.4	310.5	297.6	281.1	274.2
59°	235.9	245.0	251.4	265.5	288.7	297.4	299.1	290.7	277.9	261.3	254.9
59.5°	217.1	224.8	231.9	246.0	269.0	276.9	277.6	270.7	258.1	242.3	236.1
60°	199.6	205.8	213.4	226.7	249.5	256.6	256.9	251.2	239.8	224.5	217.6
60.5°	181.8	187.0	194.6	208.0	231.2	237.4	237.9	232.7	221.6	206.7	199.1
61°	164.5	169.0	176.9	189.9	212.9	218.4	218.6	214.2	203.5	189.0	180.8
61.5°	147.7	151.7	160.1	172.7	194.6	199.1	199.3	195.6	185.3	171.2	162.3
62°	131.7	135.4	143.3	155.6	176.4	180.1	180.1	177.1	167.0	154.9	146.2
62.5°	116.3	119.8	127.7	139.3	158.1	161.0	160.8	158.6	150.2	138.8	130.2
63°	101.8	104.7	112.4	124.2	140.8	143.3	143.0	141.3	134.1	123.7	115.1
63.5°	87.4	90.9	98.3	109.2	124.5	126.7	126.5	125.0	118.8	109.2	101.0
64°	75.6	79.8	84.7	95.1	108.9	110.7	110.7	109.2	103.2	95.3	87.9
64.5°	63.7	68.9	73.9	82.7	94.1	95.6	95.3	93.9	88.2	82.5	75.3
65°	51.9	57.8	62.7	71.1	80.0	81.3	81.3	79.8	73.4	69.9	64.0
65.5°	40.3	46.9	51.6	59.3	66.4	68.2	68.2	66.2	59.3	58.3	53.4
66°	28.4	35.8	40.8	47.7	54.1	55.6	55.6	53.6	46.2	47.4	43.5



TEST NUMBER: P776041

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.1	15.3	17.8	19.5	28.2	29.1	29.1	27.7	20.7	24.9	23.0
68°	6.9	10.6	12.4	13.1	20.7	21.5	21.5	20.5	12.4	18.8	16.1
68.5°	4.9	8.6	7.7	8.2	13.3	13.8	13.8	13.1	4.0	12.4	9.4
69°	2.7	6.7	5.9	6.2	6.2	6.4	6.2	6.2	1.2	5.9	5.4
69.5°	0.7	4.7	4.2	4.4	3.0	3.0	3.0	3.0	0.7	3.0	2.7
70°	0.7	2.7	2.5	2.5	1.2	1.2	1.2	1.2	0.7	1.2	1.2
70.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
71°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
71.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
80.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
81°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	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: P776041
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776041

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6
0.5°	1205.4	1205.1	1205.1	1205.4	1205.1	1204.9
1°	1204.9	1204.4	1204.4	1204.6	1204.6	1204.4
1.5°	1204.4	1203.6	1203.4	1203.9	1203.9	1203.9
2°	1203.6	1202.7	1202.4	1202.9	1202.9	1203.2
2.5°	1202.9	1201.4	1201.4	1201.7	1201.9	1202.4
3°	1201.9	1200.4	1200.2	1200.7	1200.9	1201.4
3.5°	1200.9	1199.2	1199.0	1199.5	1199.9	1200.7
4°	1199.7	1198.0	1197.5	1198.0	1198.7	1199.5
4.5°	1198.5	1196.5	1196.0	1196.5	1197.2	1198.5
5°	1197.2	1195.0	1194.5	1195.0	1195.7	1197.2
5.5°	1195.7	1193.3	1192.8	1193.3	1194.3	1196.0
6°	1194.3	1191.5	1191.1	1191.5	1192.5	1194.3
6.5°	1192.5	1189.8	1189.1	1189.6	1191.1	1192.8
7°	1190.8	1187.8	1187.1	1187.8	1189.1	1191.1
7.5°	1189.1	1185.6	1185.1	1185.6	1187.1	1189.3
8°	1187.1	1183.6	1182.7	1183.4	1185.1	1187.6
8.5°	1184.9	1181.4	1180.4	1181.2	1182.9	1185.4
9°	1182.9	1178.9	1178.0	1178.7	1180.4	1183.4
9.5°	1180.4	1176.7	1175.7	1176.2	1178.2	1181.2
10°	1178.2	1174.0	1173.0	1173.8	1175.7	1178.7
10.5°	1175.7	1171.3	1170.3	1171.0	1173.0	1176.5
11°	1173.3	1168.6	1167.3	1168.3	1170.3	1173.8
11.5°	1170.6	1165.9	1164.4	1165.1	1167.6	1171.3
12°	1167.8	1162.6	1161.4	1162.2	1164.6	1168.3
12.5°	1164.9	1159.7	1158.2	1158.9	1161.7	1165.6
13°	1161.9	1156.5	1155.0	1155.7	1158.4	1162.4
13.5°	1158.7	1153.3	1151.5	1152.3	1155.0	1159.4
14°	1155.7	1149.8	1148.1	1148.8	1151.8	1156.2
14.5°	1152.3	1146.1	1144.6	1145.4	1148.1	1152.8
15°	1148.8	1142.6	1140.7	1141.7	1144.6	1149.3
15.5°	1145.4	1138.7	1136.7	1137.7	1140.7	1145.6
16°	1141.4	1135.0	1132.8	1133.7	1137.0	1142.1
16.5°	1137.9	1130.8	1128.8	1129.8	1133.0	1138.2
17°	1134.0	1126.6	1124.6	1125.3	1128.8	1134.2
17.5°	1129.8	1122.4	1120.2	1121.2	1124.6	1130.3
18°	1125.8	1117.9	1115.7	1116.7	1120.2	1126.1
18.5°	1121.4	1113.5	1111.0	1112.0	1115.7	1121.6
19°	1117.0	1109.0	1106.3	1107.3	1111.0	1117.2
19.5°	1112.5	1104.4	1101.4	1102.4	1106.6	1112.8
20°	1107.8	1099.4	1096.5	1097.4	1101.6	1108.1
20.5°	1103.1	1094.2	1091.3	1092.3	1096.5	1103.1
21°	1098.2	1089.0	1086.1	1086.8	1091.3	1098.4

TEST NUMBER: P776041

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1082.4	1072.7	1069.3	1070.3	1075.0	1082.6
23°	1077.2	1067.1	1063.4	1064.3	1069.3	1077.2
23.5°	1071.5	1061.4	1057.7	1058.4	1063.6	1071.5
24°	1065.8	1055.4	1051.5	1052.2	1057.4	1065.8
24.5°	1059.9	1049.0	1045.3	1046.1	1051.2	1059.6
25°	1054.0	1042.9	1038.9	1039.6	1045.1	1053.7
25.5°	1047.8	1036.7	1032.2	1033.2	1038.7	1047.5
26°	1041.6	1030.0	1025.6	1026.5	1032.2	1041.4
26.5°	1034.9	1023.1	1018.6	1019.6	1025.3	1034.7
27°	1028.3	1016.2	1012.0	1012.7	1018.6	1028.3
27.5°	1021.9	1009.5	1005.1	1005.6	1011.7	1021.4
28°	1014.9	1002.3	997.6	998.4	1004.6	1014.4
28.5°	1007.8	994.9	990.2	991.0	997.2	1007.3
29°	1000.9	987.8	982.8	983.8	990.0	1000.1
29.5°	993.7	980.1	975.2	975.9	982.6	993.0
30°	986.0	972.7	967.5	968.3	974.7	985.3
30.5°	978.6	964.8	959.4	960.1	967.0	977.6
31°	971.0	956.6	951.5	952.2	958.9	970.0
31.5°	963.1	948.7	943.1	943.8	950.7	961.8
32°	954.9	940.6	934.9	935.7	942.6	953.9
32.5°	947.0	932.2	926.5	927.0	934.4	945.5
33°	938.6	923.8	917.9	918.6	925.8	937.4
33.5°	930.5	915.4	909.2	910.2	917.1	929.0
34°	921.8	906.8	900.6	901.1	908.5	920.3
34.5°	913.4	897.6	891.4	892.2	899.6	911.4
35°	904.3	888.7	882.3	883.3	890.4	902.6
35.5°	895.6	879.6	873.4	874.1	881.3	893.7
36°	886.7	870.7	864.3	865.0	872.4	884.3
36.5°	877.9	861.3	855.1	855.6	863.3	875.4
37°	868.5	851.9	845.7	846.2	853.6	865.7
37.5°	859.1	842.5	835.9	836.8	844.3	856.1
38°	849.7	832.9	826.5	827.2	834.4	846.2
38.5°	839.8	823.3	816.8	817.6	824.7	836.8
39°	830.4	813.4	807.2	807.7	815.1	827.2
39.5°	820.5	803.8	797.3	798.1	805.2	817.1
40°	810.7	793.4	787.4	787.9	794.9	807.0
40.5°	800.8	783.5	777.3	778.1	784.7	796.8
41°	790.4	773.1	767.2	767.9	774.6	786.5
41.5°	780.3	762.7	756.6	757.6	764.2	775.8
42°	769.9	752.4	746.4	747.2	753.9	765.5
42.5°	759.5	741.8	736.1	736.6	743.2	754.8
43°	748.9	730.9	725.0	725.9	732.1	743.7
43.5°	737.8	719.8	714.1	714.8	721.0	732.9



TEST NUMBER: P776041

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	704.2	685.9	680.7	681.2	687.2	699.0
45.5°	692.8	674.8	669.4	670.1	675.8	687.7
46°	681.7	663.7	658.3	659.0	664.9	676.5
46.5°	670.4	653.1	647.6	648.1	654.1	665.7
47°	659.7	642.5	637.3	637.8	643.2	655.1
47.5°	649.1	631.8	626.6	627.4	632.6	644.4
48°	638.8	621.5	616.0	617.0	622.2	633.8
48.5°	628.1	610.8	605.7	606.1	611.6	623.4
49°	616.8	599.2	594.0	594.8	600.5	612.1
49.5°	604.4	586.6	581.9	582.7	588.1	599.7
50°	590.8	572.1	567.6	569.1	574.8	585.6
50.5°	574.8	555.8	551.8	553.5	558.7	570.1
51°	557.7	538.2	534.5	536.0	541.9	553.0
51.5°	539.7	520.4	516.2	517.5	524.1	534.8
52°	521.7	501.4	497.2	498.5	504.9	515.3
52.5°	502.7	482.2	478.0	478.7	484.9	496.2
53°	483.6	462.1	457.5	458.2	464.9	476.5
53.5°	463.9	442.6	436.9	437.9	444.6	456.5
54°	444.9	422.9	416.4	417.2	423.9	436.0
54.5°	424.6	402.9	396.4	396.7	403.6	415.7
55°	405.1	382.9	375.7	375.9	382.9	395.0
55.5°	384.6	363.6	355.4	354.9	362.4	374.2
56°	365.1	344.1	335.2	333.9	342.3	354.0
56.5°	344.8	324.8	315.4	313.9	322.6	333.7
57°	325.1	305.0	295.7	293.7	302.6	313.0
57.5°	305.5	286.3	276.2	274.2	283.1	293.2
58°	286.3	267.5	257.4	255.4	264.0	273.7
58.5°	267.0	249.2	238.9	236.4	244.8	254.7
59°	248.0	230.9	220.8	218.4	227.0	235.9
59.5°	230.0	212.9	203.5	200.8	209.2	217.1
60°	211.7	195.6	186.0	184.0	191.7	199.6
60.5°	193.7	178.6	169.7	167.7	174.9	181.8
61°	175.6	161.8	153.9	152.2	158.6	164.5
61.5°	159.1	146.2	139.1	137.3	142.8	147.7
62°	142.8	130.7	124.7	123.7	127.7	131.7
62.5°	127.0	115.6	111.2	110.2	113.1	116.3
63°	111.6	101.8	98.3	97.6	99.0	101.8
63.5°	97.3	88.4	85.7	85.2	86.0	87.4
64°	83.7	77.6	75.6	75.1	75.3	75.6
64.5°	71.1	66.7	65.5	65.2	64.7	63.7
65°	59.5	56.1	55.3	55.1	54.1	51.9
65.5°	48.9	45.2	45.2	45.2	43.5	40.3
66°	38.8	34.6	36.6	37.1	34.6	28.4



TEST NUMBER: P776041

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	20.3	14.3	16.3	16.8	14.6	9.1
68°	14.1	9.9	11.4	11.6	10.1	6.9
68.5°	8.2	7.7	7.2	7.4	7.7	4.9
69°	4.9	5.4	5.4	5.7	5.4	2.7
69.5°	2.5	3.0	4.0	4.0	3.0	0.7
70°	1.2	0.7	2.2	2.2	0.7	0.7
70.5°	0.7	0.7	0.7	0.7	0.7	0.7
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	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: P776041

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-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



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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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21.5°	1093.0	1103.6	1114.5	1123.9	1131.8	1133.7	1132.8	1128.6	1121.4	1111.5	1101.6
22°	1088.1	1098.7	1109.8	1119.4	1127.3	1129.5	1128.3	1123.9	1117.0	1106.8	1096.7



44°	721.5	741.0	758.8	774.9	789.2	792.1	791.6	785.5	773.9	758.8	742.7
44.5°	710.1	729.9	747.7	763.2	778.1	781.5	780.0	774.4	762.5	747.4	731.4



66.5°	20.5	27.9	32.1	36.1	43.0	44.5	44.5	42.2	37.8	37.8	36.6
67°	14.1	21.0	24.5	27.2	35.6	36.8	36.8	34.8	29.4	31.4	29.9



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°	1093.0	1083.9	1080.6	1081.4	1086.1	1093.0
22°	1087.8	1078.4	1075.2	1075.9	1080.6	1088.1



44°	726.7	708.4	703.0	703.5	709.9	721.5
44.5°	715.6	697.3	691.9	692.4	698.5	710.1



66.5°	32.6	26.4	29.1	29.1	26.9	20.5
67°	26.4	19.8	22.2	22.5	20.3	14.1

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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)