

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: P776167

Luminaire Tested: HCDJBL51525CSD-HCD82TRMB-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B065-HCD82TRMB)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRMB-2500lm-3500K
Description: 8 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

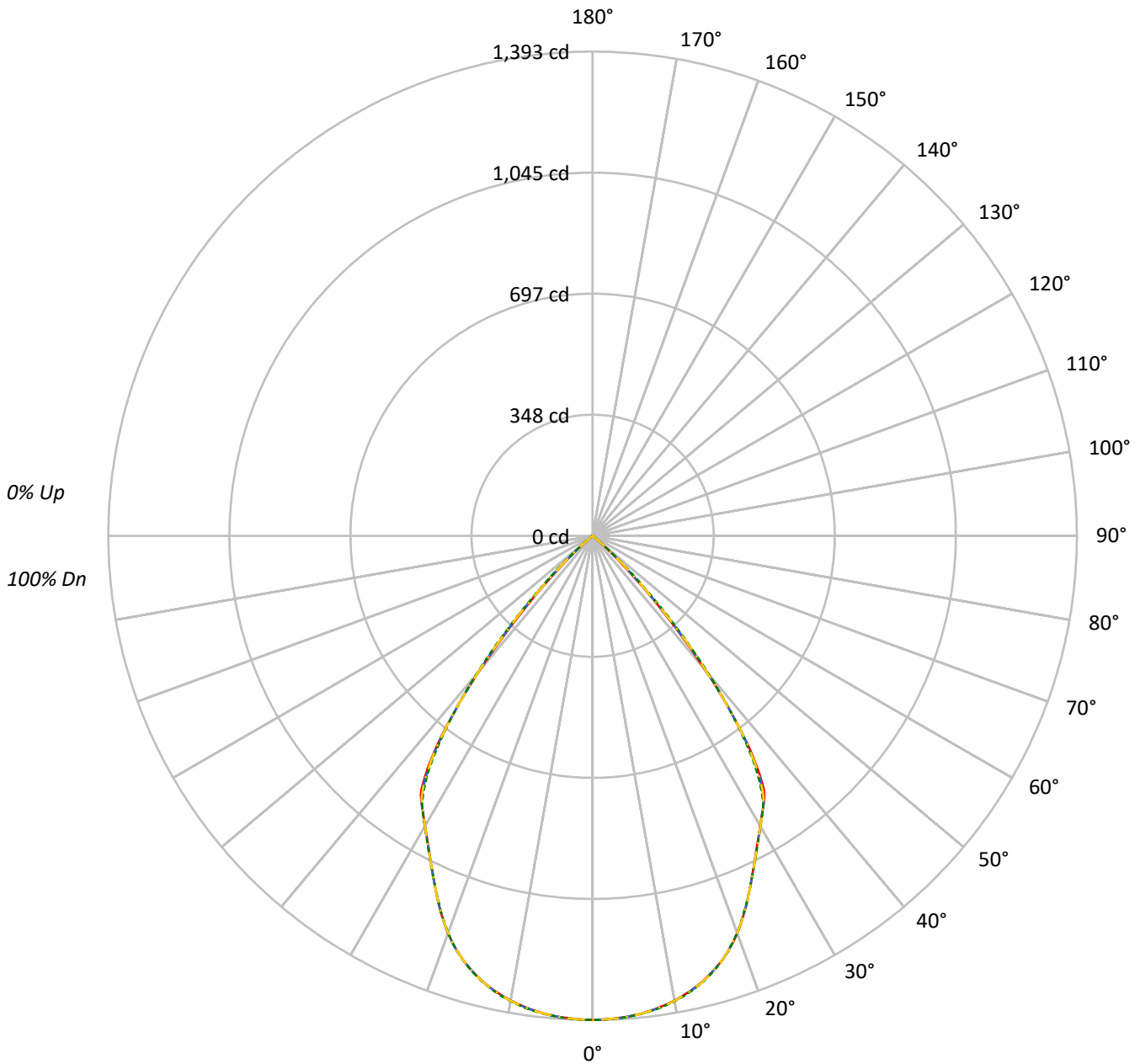
Lumens per Lamp: N/A
Luminaire Lumens: 1656.5 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.08
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	85	91	86	83	88	85	82	86	83	81	79					79			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73					73			
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67					67			
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62					62			
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57					57			
8	76	66	60	55	75	66	60	55	64	59	55	63	58	55	62	58	55	53					53			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49					49			
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	42523	42523	42523	42523
5°	42421	42461	42421	42461
10°	42087	42149	42087	42149
15°	41276	41317	41276	41317
20°	39527	39485	39527	39485
25°	36509	36543	36509	36543
30°	33988	34041	33988	34041
35°	31203	30566	31203	30566
40°	20134	20692	20134	20692
45°	7387	8886	7387	8886
50°	845	1358	845	1358
55°	133	133	133	133
60°	79	79	79	79
65°	58	58	58	58
70°	45	45	45	45
75°	35	35	35	35
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	7.9
10°-20°	366.4	22.1
20°-30°	499.4	30.1
30°-40°	493.1	29.8
40°-50°	161.5	9.7
50°-60°	3.8	0.2
60°-70°	0.8	0.0
70°-80°	0.3	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°	997.1	60.2
0°-40°	1490.2	90.0
0°-60°	1655.5	99.9
0°-90°	1656.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1393	1393	1393	1393	1393	
5°	1384	1386	1384	1386	1384	131
15°	1306	1307	1306	1307	1306	366
25°	1084	1085	1084	1085	1084	499
35°	837	820	837	820	837	495
45°	171	206	171	206	171	151
55°	2	2	2	2	2	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	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°	1392.8	1392.8	1392.8	1392.8	1392.8	1392.8	1392.8	1392.8	1392.8	1392.8	1392.8
0.5°	1392.5	1392.5	1392.8	1392.5	1392.8	1392.5	1392.8	1392.5	1392.5	1392.5	1392.8
1°	1392.3	1392.3	1392.5	1392.3	1392.8	1392.3	1392.5	1392.3	1392.3	1392.3	1392.5
1.5°	1391.7	1392.0	1392.0	1392.0	1392.3	1392.0	1392.0	1392.0	1391.7	1392.0	1392.0
2°	1391.2	1391.2	1391.5	1391.5	1391.7	1391.5	1391.5	1391.2	1391.2	1391.2	1391.5
2.5°	1390.5	1390.7	1390.7	1390.7	1391.0	1390.7	1390.7	1390.7	1390.5	1390.7	1390.7
3°	1389.7	1389.7	1390.0	1390.0	1390.2	1390.0	1390.0	1389.7	1389.7	1389.7	1390.0
3.5°	1388.7	1388.7	1389.0	1389.0	1389.2	1389.0	1389.0	1388.7	1388.7	1388.7	1389.0
4°	1387.5	1387.5	1387.7	1387.7	1388.2	1387.7	1387.7	1387.5	1387.5	1387.5	1387.7
4.5°	1386.0	1386.0	1386.2	1386.5	1386.7	1386.5	1386.2	1386.0	1386.0	1386.0	1386.2
5°	1384.2	1384.5	1384.7	1385.0	1385.5	1385.0	1384.7	1384.5	1384.2	1384.5	1384.7
5.5°	1382.7	1382.7	1383.0	1383.2	1383.7	1383.2	1383.0	1382.7	1382.7	1382.7	1383.0
6°	1380.7	1380.7	1381.2	1381.5	1382.0	1381.5	1381.2	1380.7	1380.7	1380.7	1381.2
6.5°	1378.4	1378.7	1379.2	1379.5	1380.0	1379.5	1379.2	1378.7	1378.4	1378.7	1379.2
7°	1376.2	1376.2	1376.9	1377.2	1377.7	1377.2	1376.9	1376.2	1376.2	1376.2	1376.9
7.5°	1373.7	1373.7	1374.4	1374.7	1375.2	1374.7	1374.4	1373.7	1373.7	1373.7	1374.4
8°	1370.9	1371.2	1371.7	1372.2	1372.7	1372.2	1371.7	1371.2	1370.9	1371.2	1371.7
8.5°	1367.9	1368.2	1368.7	1369.2	1369.7	1369.2	1368.7	1368.2	1367.9	1368.2	1368.7
9°	1364.6	1364.9	1365.7	1366.2	1366.7	1366.2	1365.7	1364.9	1364.6	1364.9	1365.7
9.5°	1361.1	1361.4	1362.1	1362.9	1363.4	1362.9	1362.1	1361.4	1361.1	1361.4	1362.1
10°	1357.6	1357.9	1358.4	1359.1	1359.6	1359.1	1358.4	1357.9	1357.6	1357.9	1358.4
10.5°	1353.6	1353.9	1354.6	1355.4	1355.9	1355.4	1354.6	1353.9	1353.6	1353.9	1354.6
11°	1349.6	1349.8	1350.6	1351.1	1351.6	1351.1	1350.6	1349.8	1349.6	1349.8	1350.6
11.5°	1345.1	1345.3	1346.1	1346.6	1347.3	1346.6	1346.1	1345.3	1345.1	1345.3	1346.1
12°	1340.6	1340.6	1341.3	1342.1	1342.6	1342.1	1341.3	1340.6	1340.6	1340.6	1341.3
12.5°	1335.5	1335.5	1336.3	1337.0	1337.5	1337.0	1336.3	1335.5	1335.5	1335.5	1336.3
13°	1330.3	1330.5	1331.0	1331.8	1332.0	1331.8	1331.0	1330.5	1330.3	1330.5	1331.0
13.5°	1324.5	1324.7	1325.5	1326.0	1326.5	1326.0	1325.5	1324.7	1324.5	1324.7	1325.5
14°	1318.7	1319.0	1319.5	1320.0	1320.5	1320.0	1319.5	1319.0	1318.7	1319.0	1319.5
14.5°	1312.5	1312.7	1313.2	1313.7	1314.2	1313.7	1313.2	1312.7	1312.5	1312.7	1313.2
15°	1305.9	1305.9	1306.4	1306.9	1307.2	1306.9	1306.4	1305.9	1305.9	1305.9	1306.4
15.5°	1298.9	1298.9	1299.4	1299.9	1300.2	1299.9	1299.4	1298.9	1298.9	1298.9	1299.4
16°	1291.4	1291.6	1291.9	1292.1	1292.6	1292.1	1291.9	1291.6	1291.4	1291.6	1291.9
16.5°	1283.8	1283.8	1284.1	1284.3	1284.6	1284.3	1284.1	1283.8	1283.8	1283.8	1284.1
17°	1275.6	1275.6	1275.8	1276.1	1276.3	1276.1	1275.8	1275.6	1275.6	1275.6	1275.8
17.5°	1266.8	1266.8	1267.0	1267.0	1267.3	1267.0	1267.0	1266.8	1266.8	1266.8	1267.0
18°	1258.0	1257.7	1257.7	1257.7	1258.0	1257.7	1257.7	1257.7	1258.0	1257.7	1257.7
18.5°	1248.2	1248.2	1248.0	1248.0	1248.0	1248.0	1248.0	1248.2	1248.2	1248.2	1248.0
19°	1238.2	1238.2	1237.9	1237.7	1237.7	1237.7	1237.9	1238.2	1238.2	1238.2	1237.9
19.5°	1227.6	1227.4	1227.1	1226.9	1226.9	1226.9	1227.1	1227.4	1227.6	1227.4	1227.1
20°	1216.6	1216.3	1216.1	1215.6	1215.3	1215.6	1216.1	1216.3	1216.6	1216.3	1216.1
20.5°	1204.8	1204.5	1204.0	1203.5	1203.3	1203.5	1204.0	1204.5	1204.8	1204.5	1204.0
21°	1192.5	1192.5	1192.0	1191.0	1190.5	1191.0	1192.0	1192.5	1192.5	1192.5	1192.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1153.1	1153.1	1152.6	1151.8	1151.8	1151.8	1152.6	1153.1	1153.1	1153.1	1152.6
23°	1139.3	1139.3	1139.0	1138.3	1138.3	1138.3	1139.0	1139.3	1139.3	1139.3	1139.0
23.5°	1125.2	1125.5	1125.2	1124.7	1124.7	1124.7	1125.2	1125.5	1125.2	1125.5	1125.2
24°	1111.2	1111.4	1111.4	1111.2	1111.4	1111.2	1111.4	1111.4	1111.2	1111.4	1111.4
24.5°	1097.6	1097.6	1097.9	1097.6	1098.1	1097.6	1097.9	1097.6	1097.6	1097.6	1097.9
25°	1083.8	1084.1	1084.3	1084.3	1084.8	1084.3	1084.3	1084.1	1083.8	1084.1	1084.3
25.5°	1070.8	1070.8	1071.0	1071.3	1071.8	1071.3	1071.0	1070.8	1070.8	1070.8	1071.0
26°	1057.7	1058.0	1058.2	1058.5	1059.0	1058.5	1058.2	1058.0	1057.7	1058.0	1058.2
26.5°	1044.9	1045.2	1045.4	1045.7	1046.4	1045.7	1045.4	1045.2	1044.9	1045.2	1045.4
27°	1032.6	1032.6	1033.1	1033.1	1033.9	1033.1	1033.1	1032.6	1032.6	1032.6	1033.1
27.5°	1020.3	1020.6	1020.9	1021.4	1021.9	1021.4	1020.9	1020.6	1020.3	1020.6	1020.9
28°	1008.3	1008.6	1009.1	1009.3	1010.1	1009.3	1009.1	1008.6	1008.3	1008.6	1009.1
28.5°	996.8	997.3	997.5	997.8	998.5	997.8	997.5	997.3	996.8	997.3	997.5
29°	985.7	986.0	986.2	986.5	987.2	986.5	986.2	986.0	985.7	986.0	986.2
29.5°	974.7	974.9	975.4	975.7	976.2	975.7	975.4	974.9	974.7	974.9	975.4
30°	964.1	964.1	964.6	964.9	965.6	964.9	964.6	964.1	964.1	964.1	964.6
30.5°	953.6	953.8	954.1	954.6	955.1	954.6	954.1	953.8	953.6	953.8	954.1
31°	943.6	943.8	944.3	944.6	945.3	944.6	944.3	943.8	943.6	943.8	944.3
31.5°	934.0	934.3	934.3	934.5	935.0	934.5	934.3	934.3	934.0	934.3	934.3
32°	924.7	924.7	924.7	924.5	925.0	924.5	924.7	924.7	924.7	924.7	924.7
32.5°	915.7	915.5	915.0	913.9	912.9	913.9	915.0	915.5	915.7	915.5	915.0
33°	905.9	905.4	902.9	900.4	897.6	900.4	902.9	905.4	905.9	905.4	902.9
33.5°	895.4	892.9	888.1	883.8	880.3	883.8	888.1	892.9	895.4	892.9	888.1
34°	880.3	877.1	870.5	865.0	861.2	865.0	870.5	877.1	880.3	877.1	870.5
34.5°	860.5	857.7	850.5	845.2	841.4	845.2	850.5	857.7	860.5	857.7	850.5
35°	837.2	834.4	827.9	823.6	820.1	823.6	827.9	834.4	837.2	834.4	827.9
35.5°	811.6	810.1	804.0	799.5	796.0	799.5	804.0	810.1	811.6	810.1	804.0
36°	784.2	783.0	777.9	773.4	769.7	773.4	777.9	783.0	784.2	783.0	777.9
36.5°	755.1	754.1	749.8	745.1	741.0	745.1	749.8	754.1	755.1	754.1	749.8
37°	722.5	721.7	719.2	715.7	711.7	715.7	719.2	721.7	722.5	721.7	719.2
37.5°	688.8	687.8	686.8	684.6	681.3	684.6	686.8	687.8	688.8	687.8	686.8
38°	653.2	651.7	652.2	652.0	650.5	652.0	652.2	651.7	653.2	651.7	652.2
38.5°	618.6	616.3	616.8	618.1	619.3	618.1	616.8	616.3	618.6	616.3	616.8
39°	581.2	580.4	580.9	584.0	587.2	584.0	580.9	580.4	581.2	580.4	580.9
39.5°	544.1	544.6	545.6	549.3	553.8	549.3	545.6	544.6	544.1	544.6	545.6
40°	505.2	507.7	509.9	514.9	519.2	514.9	509.9	507.7	505.2	507.7	509.9
40.5°	467.8	471.3	475.5	481.1	484.8	481.1	475.5	471.3	467.8	471.3	475.5
41°	429.4	434.1	441.2	447.4	451.2	447.4	441.2	434.1	429.4	434.1	441.2
41.5°	393.0	398.0	406.5	414.1	417.6	414.1	406.5	398.0	393.0	398.0	406.5
42°	357.3	361.9	371.9	380.9	384.2	380.9	371.9	361.9	357.3	361.9	371.9
42.5°	322.7	328.2	339.5	348.6	351.6	348.6	339.5	328.2	322.7	328.2	339.5
43°	289.3	295.6	306.9	316.4	319.7	316.4	306.9	295.6	289.3	295.6	306.9
43.5°	258.2	264.2	275.3	285.1	289.6	285.1	275.3	264.2	258.2	264.2	275.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	171.1	176.4	188.0	199.5	205.8	199.5	188.0	176.4	171.1	176.4	188.0
45.5°	144.8	151.1	162.9	174.9	180.7	174.9	162.9	151.1	144.8	151.1	162.9
46°	121.7	127.0	140.3	152.1	159.1	152.1	140.3	127.0	121.7	127.0	140.3
46.5°	100.9	106.4	118.9	130.2	137.8	130.2	118.9	106.4	100.9	106.4	118.9
47°	84.6	87.8	98.4	109.7	116.2	109.7	98.4	87.8	84.6	87.8	98.4
47.5°	69.0	71.0	80.6	90.3	94.6	90.3	80.6	71.0	69.0	71.0	80.6
48°	55.0	57.0	64.2	73.0	77.5	73.0	64.2	57.0	55.0	57.0	64.2
48.5°	44.2	45.2	51.4	58.0	62.0	58.0	51.4	45.2	44.2	45.2	51.4
49°	33.1	34.4	39.6	45.9	48.2	45.9	39.6	34.4	33.1	34.4	39.6
49.5°	25.1	25.6	29.1	34.6	37.6	34.6	29.1	25.6	25.1	25.6	29.1
50°	17.8	17.3	22.1	27.1	28.6	27.1	22.1	17.3	17.8	17.3	22.1
50.5°	11.0	12.0	15.6	20.3	23.1	20.3	15.6	12.0	11.0	12.0	15.6
51°	6.0	8.0	10.8	13.6	17.6	13.6	10.8	8.0	6.0	8.0	10.8
51.5°	4.8	5.0	7.0	8.8	13.0	8.8	7.0	5.0	4.8	5.0	7.0
52°	4.0	4.3	4.5	5.5	8.5	5.5	4.5	4.3	4.0	4.3	4.5
52.5°	3.3	3.8	3.8	4.3	4.0	4.3	3.8	3.8	3.3	3.8	3.8
53°	3.3	3.3	3.5	3.5	3.3	3.5	3.5	3.3	3.3	3.3	3.5
53.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
54°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
54.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
55.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
56°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
56.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
57°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
58°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
58.5°	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.8	1.8
59°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
60.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
61°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
61.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
63°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
63.5°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	1.0
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
64.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P776167

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
78°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	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	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: P776167

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-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: P776167

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1392.8	1392.8	1392.8	1392.8	1392.8	1392.8
0.5°	1392.5	1392.8	1392.5	1392.8	1392.5	1392.5
1°	1392.3	1392.8	1392.3	1392.5	1392.3	1392.3
1.5°	1392.0	1392.3	1392.0	1392.0	1392.0	1391.7
2°	1391.5	1391.7	1391.5	1391.5	1391.2	1391.2
2.5°	1390.7	1391.0	1390.7	1390.7	1390.7	1390.5
3°	1390.0	1390.2	1390.0	1390.0	1389.7	1389.7
3.5°	1389.0	1389.2	1389.0	1389.0	1388.7	1388.7
4°	1387.7	1388.2	1387.7	1387.7	1387.5	1387.5
4.5°	1386.5	1386.7	1386.5	1386.2	1386.0	1386.0
5°	1385.0	1385.5	1385.0	1384.7	1384.5	1384.2
5.5°	1383.2	1383.7	1383.2	1383.0	1382.7	1382.7
6°	1381.5	1382.0	1381.5	1381.2	1380.7	1380.7
6.5°	1379.5	1380.0	1379.5	1379.2	1378.7	1378.4
7°	1377.2	1377.7	1377.2	1376.9	1376.2	1376.2
7.5°	1374.7	1375.2	1374.7	1374.4	1373.7	1373.7
8°	1372.2	1372.7	1372.2	1371.7	1371.2	1370.9
8.5°	1369.2	1369.7	1369.2	1368.7	1368.2	1367.9
9°	1366.2	1366.7	1366.2	1365.7	1364.9	1364.6
9.5°	1362.9	1363.4	1362.9	1362.1	1361.4	1361.1
10°	1359.1	1359.6	1359.1	1358.4	1357.9	1357.6
10.5°	1355.4	1355.9	1355.4	1354.6	1353.9	1353.6
11°	1351.1	1351.6	1351.1	1350.6	1349.8	1349.6
11.5°	1346.6	1347.3	1346.6	1346.1	1345.3	1345.1
12°	1342.1	1342.6	1342.1	1341.3	1340.6	1340.6
12.5°	1337.0	1337.5	1337.0	1336.3	1335.5	1335.5
13°	1331.8	1332.0	1331.8	1331.0	1330.5	1330.3
13.5°	1326.0	1326.5	1326.0	1325.5	1324.7	1324.5
14°	1320.0	1320.5	1320.0	1319.5	1319.0	1318.7
14.5°	1313.7	1314.2	1313.7	1313.2	1312.7	1312.5
15°	1306.9	1307.2	1306.9	1306.4	1305.9	1305.9
15.5°	1299.9	1300.2	1299.9	1299.4	1298.9	1298.9
16°	1292.1	1292.6	1292.1	1291.9	1291.6	1291.4
16.5°	1284.3	1284.6	1284.3	1284.1	1283.8	1283.8
17°	1276.1	1276.3	1276.1	1275.8	1275.6	1275.6
17.5°	1267.0	1267.3	1267.0	1267.0	1266.8	1266.8
18°	1257.7	1258.0	1257.7	1257.7	1257.7	1258.0
18.5°	1248.0	1248.0	1248.0	1248.0	1248.2	1248.2
19°	1237.7	1237.7	1237.7	1237.9	1238.2	1238.2
19.5°	1226.9	1226.9	1226.9	1227.1	1227.4	1227.6
20°	1215.6	1215.3	1215.6	1216.1	1216.3	1216.6
20.5°	1203.5	1203.3	1203.5	1204.0	1204.5	1204.8
21°	1191.0	1190.5	1191.0	1192.0	1192.5	1192.5

TEST NUMBER: P776167

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1151.8	1151.8	1151.8	1152.6	1153.1	1153.1
23°	1138.3	1138.3	1138.3	1139.0	1139.3	1139.3
23.5°	1124.7	1124.7	1124.7	1125.2	1125.5	1125.2
24°	1111.2	1111.4	1111.2	1111.4	1111.4	1111.2
24.5°	1097.6	1098.1	1097.6	1097.9	1097.6	1097.6
25°	1084.3	1084.8	1084.3	1084.3	1084.1	1083.8
25.5°	1071.3	1071.8	1071.3	1071.0	1070.8	1070.8
26°	1058.5	1059.0	1058.5	1058.2	1058.0	1057.7
26.5°	1045.7	1046.4	1045.7	1045.4	1045.2	1044.9
27°	1033.1	1033.9	1033.1	1033.1	1032.6	1032.6
27.5°	1021.4	1021.9	1021.4	1020.9	1020.6	1020.3
28°	1009.3	1010.1	1009.3	1009.1	1008.6	1008.3
28.5°	997.8	998.5	997.8	997.5	997.3	996.8
29°	986.5	987.2	986.5	986.2	986.0	985.7
29.5°	975.7	976.2	975.7	975.4	974.9	974.7
30°	964.9	965.6	964.9	964.6	964.1	964.1
30.5°	954.6	955.1	954.6	954.1	953.8	953.6
31°	944.6	945.3	944.6	944.3	943.8	943.6
31.5°	934.5	935.0	934.5	934.3	934.3	934.0
32°	924.5	925.0	924.5	924.7	924.7	924.7
32.5°	913.9	912.9	913.9	915.0	915.5	915.7
33°	900.4	897.6	900.4	902.9	905.4	905.9
33.5°	883.8	880.3	883.8	888.1	892.9	895.4
34°	865.0	861.2	865.0	870.5	877.1	880.3
34.5°	845.2	841.4	845.2	850.5	857.7	860.5
35°	823.6	820.1	823.6	827.9	834.4	837.2
35.5°	799.5	796.0	799.5	804.0	810.1	811.6
36°	773.4	769.7	773.4	777.9	783.0	784.2
36.5°	745.1	741.0	745.1	749.8	754.1	755.1
37°	715.7	711.7	715.7	719.2	721.7	722.5
37.5°	684.6	681.3	684.6	686.8	687.8	688.8
38°	652.0	650.5	652.0	652.2	651.7	653.2
38.5°	618.1	619.3	618.1	616.8	616.3	618.6
39°	584.0	587.2	584.0	580.9	580.4	581.2
39.5°	549.3	553.8	549.3	545.6	544.6	544.1
40°	514.9	519.2	514.9	509.9	507.7	505.2
40.5°	481.1	484.8	481.1	475.5	471.3	467.8
41°	447.4	451.2	447.4	441.2	434.1	429.4
41.5°	414.1	417.6	414.1	406.5	398.0	393.0
42°	380.9	384.2	380.9	371.9	361.9	357.3
42.5°	348.6	351.6	348.6	339.5	328.2	322.7
43°	316.4	319.7	316.4	306.9	295.6	289.3
43.5°	285.1	289.6	285.1	275.3	264.2	258.2



TEST NUMBER: P776167

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	199.5	205.8	199.5	188.0	176.4	171.1
45.5°	174.9	180.7	174.9	162.9	151.1	144.8
46°	152.1	159.1	152.1	140.3	127.0	121.7
46.5°	130.2	137.8	130.2	118.9	106.4	100.9
47°	109.7	116.2	109.7	98.4	87.8	84.6
47.5°	90.3	94.6	90.3	80.6	71.0	69.0
48°	73.0	77.5	73.0	64.2	57.0	55.0
48.5°	58.0	62.0	58.0	51.4	45.2	44.2
49°	45.9	48.2	45.9	39.6	34.4	33.1
49.5°	34.6	37.6	34.6	29.1	25.6	25.1
50°	27.1	28.6	27.1	22.1	17.3	17.8
50.5°	20.3	23.1	20.3	15.6	12.0	11.0
51°	13.6	17.6	13.6	10.8	8.0	6.0
51.5°	8.8	13.0	8.8	7.0	5.0	4.8
52°	5.5	8.5	5.5	4.5	4.3	4.0
52.5°	4.3	4.0	4.3	3.8	3.8	3.3
53°	3.5	3.3	3.5	3.5	3.3	3.3
53.5°	3.0	3.0	3.0	3.0	3.0	3.0
54°	2.8	2.8	2.8	2.8	2.8	2.8
54.5°	2.8	2.8	2.8	2.8	2.8	2.8
55°	2.5	2.5	2.5	2.5	2.5	2.5
55.5°	2.5	2.5	2.5	2.5	2.5	2.5
56°	2.3	2.3	2.3	2.3	2.3	2.3
56.5°	2.0	2.0	2.0	2.0	2.0	2.0
57°	2.0	2.0	2.0	2.0	2.0	2.0
57.5°	1.8	1.8	1.8	1.8	1.8	1.8
58°	1.8	1.8	1.8	1.8	1.8	1.8
58.5°	1.8	1.8	1.8	1.8	1.8	1.5
59°	1.5	1.5	1.5	1.5	1.5	1.5
59.5°	1.5	1.5	1.5	1.5	1.5	1.5
60°	1.3	1.3	1.3	1.3	1.3	1.3
60.5°	1.3	1.3	1.3	1.3	1.3	1.3
61°	1.3	1.3	1.3	1.3	1.3	1.3
61.5°	1.0	1.0	1.0	1.0	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0
63°	1.0	1.0	1.0	1.0	1.0	1.0
63.5°	1.0	1.0	1.0	1.0	1.0	0.8
64°	0.8	0.8	0.8	0.8	0.8	0.8
64.5°	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8
65.5°	0.8	0.8	0.8	0.8	0.8	0.8
66°	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P776167

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5
68°	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.0
78°	0.3	0.3	0.3	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	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: P776167

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-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

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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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report





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

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1179.7	1179.4	1178.9	1178.2	1177.9	1178.2	1178.9	1179.4	1179.7	1179.4	1178.9
22°	1166.7	1166.4	1165.9	1165.1	1164.9	1165.1	1165.9	1166.4	1166.7	1166.4	1165.9



44°	228.1	232.9	244.4	254.7	260.7	254.7	244.4	232.9	228.1	232.9	244.4
44.5°	199.3	203.8	215.3	226.6	232.6	226.6	215.3	203.8	199.3	203.8	215.3



66.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
67°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



89°	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

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Peachtree City, GA 30269

Scaled Data Report





21.5°	1178.2	1177.9	1178.2	1178.9	1179.4	1179.7
22°	1165.1	1164.9	1165.1	1165.9	1166.4	1166.7



44°	254.7	260.7	254.7	244.4	232.9	228.1
44.5°	226.6	232.6	226.6	215.3	203.8	199.3

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



66.5°	0.8	0.8	0.8	0.8	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.5	0.5

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1121 Highway 74 South
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)