

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: P775923

Luminaire Tested: HCDJBL51525CSD-HCD42TRMW-2000lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156A001)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD42TRMW-2000lm-4000K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

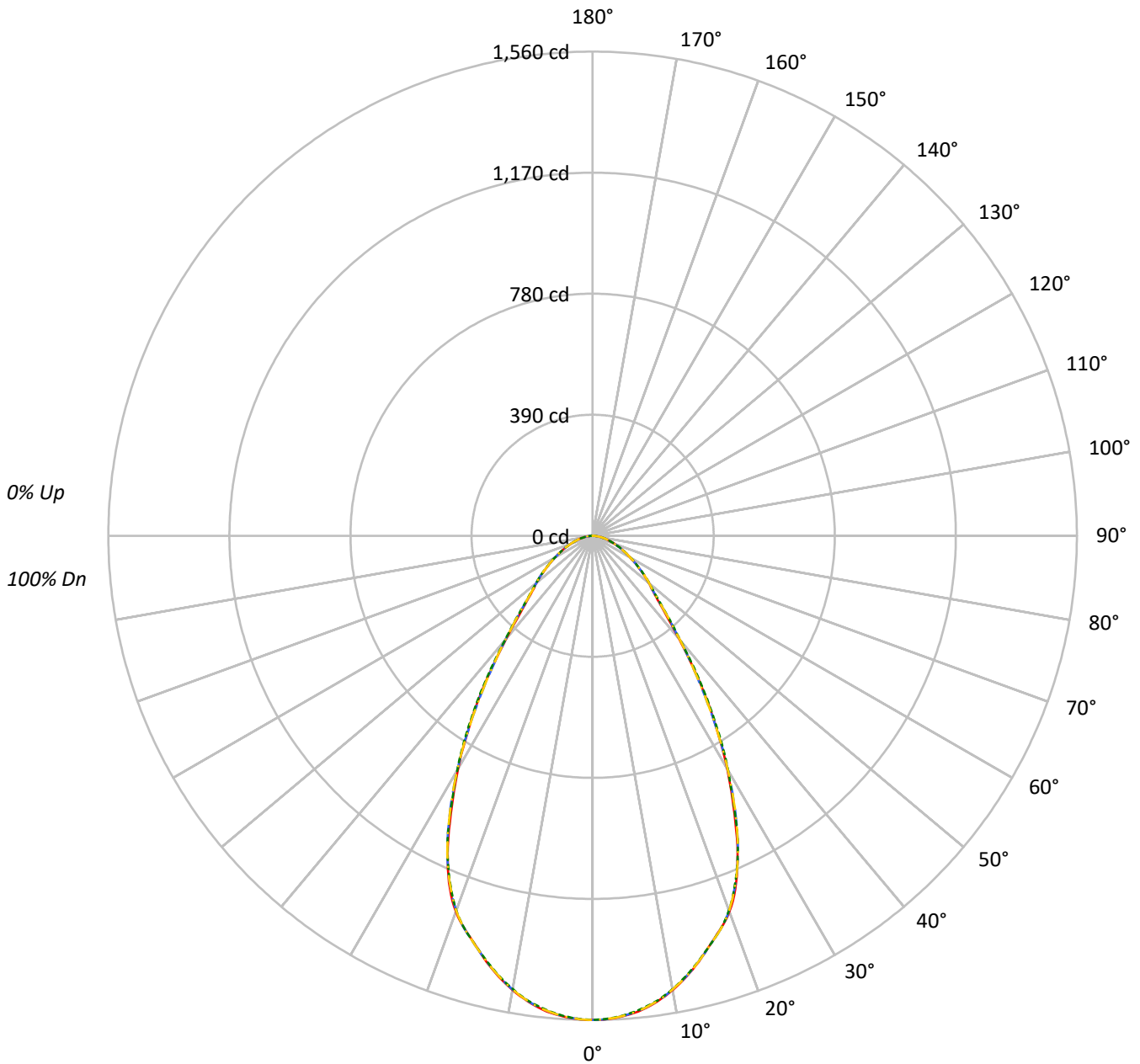
Lumens per Lamp: N/A  
Luminaire Lumens: 2014.4 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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										
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	94	93	91	89								
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53								
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49								
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	196338	196338	196338	196338
5°	194941	194524	194941	194524
10°	189911	189489	189911	189489
15°	181506	181298	181506	181298
20°	172591	171975	172591	171975
25°	153176	153676	153176	153676
30°	126035	126703	126035	126703
35°	97773	98833	97773	98833
40°	71021	72253	71021	72253
45°	53767	55102	53767	55102
50°	46304	46676	46304	46676
55°	40240	40701	40240	40701
60°	35188	35490	35188	35490
65°	30910	31178	30910	31178
70°	27303	27450	27303	27450
75°	23972	23972	23972	23972
80°	20728	20583	20728	20583
85°	16606	16606	16606	16606

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 55102 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	7.2
10°-20°	391.3	19.4
20°-30°	501.2	24.9
30°-40°	397.1	19.7
40°-50°	243.2	12.1
50°-60°	166.2	8.3
60°-70°	104.1	5.2
70°-80°	52.7	2.6
80°-90°	13.3	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1037.8	51.5
0°-40°	1435.0	71.2
0°-60°	1844.4	91.6
0°-90°	2014.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1560	1560	1560	1560	1560	
5°	1543	1540	1543	1540	1543	145
15°	1393	1392	1393	1392	1393	392
25°	1103	1107	1103	1107	1103	500
35°	636	643	636	643	636	397
45°	302	310	302	310	302	240
55°	183	186	183	186	183	165
65°	104	105	104	105	104	104
75°	49	49	49	49	49	53
85°	12	12	12	12	12	13
90°	0	1	0	1	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°	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1
0.5°	1560.3	1560.1	1559.7	1559.4	1558.8	1559.4	1559.7	1560.1	1560.3	1560.1	1559.7
1°	1559.7	1559.4	1559.2	1559.0	1558.2	1559.0	1559.2	1559.4	1559.7	1559.4	1559.2
1.5°	1558.8	1558.4	1558.4	1558.0	1557.4	1558.0	1558.4	1558.4	1558.8	1558.4	1558.4
2°	1557.6	1557.4	1556.9	1556.7	1555.9	1556.7	1556.9	1557.4	1557.6	1557.4	1556.9
2.5°	1556.1	1555.7	1555.3	1555.1	1554.0	1555.1	1555.3	1555.7	1556.1	1555.7	1555.3
3°	1554.0	1553.6	1553.2	1552.8	1551.7	1552.8	1553.2	1553.6	1554.0	1553.6	1553.2
3.5°	1551.7	1551.3	1550.7	1550.2	1549.6	1550.2	1550.7	1551.3	1551.7	1551.3	1550.7
4°	1549.0	1548.8	1548.0	1547.5	1546.5	1547.5	1548.0	1548.8	1549.0	1548.8	1548.0
4.5°	1546.1	1545.7	1544.8	1544.4	1543.1	1544.4	1544.8	1545.7	1546.1	1545.7	1544.8
5°	1543.1	1542.5	1541.7	1541.3	1539.8	1541.3	1541.7	1542.5	1543.1	1542.5	1541.7
5.5°	1540.0	1538.5	1537.5	1537.1	1535.8	1537.1	1537.5	1538.5	1540.0	1538.5	1537.5
6°	1535.2	1534.4	1533.3	1532.7	1531.0	1532.7	1533.3	1534.4	1535.2	1534.4	1533.3
6.5°	1530.4	1529.8	1528.5	1527.9	1526.2	1527.9	1528.5	1529.8	1530.4	1529.8	1528.5
7°	1525.4	1524.6	1523.9	1522.9	1521.4	1522.9	1523.9	1524.6	1525.4	1524.6	1523.9
7.5°	1519.7	1518.9	1518.1	1517.7	1516.2	1517.7	1518.1	1518.9	1519.7	1518.9	1518.1
8°	1513.7	1513.1	1512.2	1511.6	1510.8	1511.6	1512.2	1513.1	1513.7	1513.1	1512.2
8.5°	1507.4	1506.6	1505.7	1505.1	1504.3	1505.1	1505.7	1506.6	1507.4	1506.6	1505.7
9°	1500.7	1500.1	1499.1	1498.4	1497.6	1498.4	1499.1	1500.1	1500.7	1500.1	1499.1
9.5°	1493.4	1493.0	1492.0	1491.3	1490.5	1491.3	1492.0	1493.0	1493.4	1493.0	1492.0
10°	1486.1	1485.5	1484.6	1483.8	1482.8	1483.8	1484.6	1485.5	1486.1	1485.5	1484.6
10.5°	1478.0	1477.5	1476.5	1475.9	1475.0	1475.9	1476.5	1477.5	1478.0	1477.5	1476.5
11°	1469.8	1469.4	1468.6	1467.7	1466.7	1467.7	1468.6	1469.4	1469.8	1469.4	1468.6
11.5°	1461.2	1460.8	1460.0	1459.2	1458.3	1459.2	1460.0	1460.8	1461.2	1460.8	1460.0
12°	1452.5	1452.1	1451.4	1450.4	1449.5	1450.4	1451.4	1452.1	1452.5	1452.1	1451.4
12.5°	1443.3	1442.9	1442.2	1441.2	1440.1	1441.2	1442.2	1442.9	1443.3	1442.9	1442.2
13°	1433.9	1433.5	1432.8	1432.0	1431.0	1432.0	1432.8	1433.5	1433.9	1433.5	1432.8
13.5°	1424.1	1423.6	1423.2	1422.4	1421.5	1422.4	1423.2	1423.6	1424.1	1423.6	1423.2
14°	1414.0	1413.8	1413.4	1412.6	1411.7	1412.6	1413.4	1413.8	1414.0	1413.8	1413.4
14.5°	1403.6	1403.4	1403.2	1402.3	1401.5	1402.3	1403.2	1403.4	1403.6	1403.4	1403.2
15°	1393.1	1393.1	1392.7	1392.3	1391.5	1392.3	1392.7	1393.1	1393.1	1393.1	1392.7
15.5°	1382.3	1382.3	1382.7	1382.3	1381.9	1382.3	1382.7	1382.3	1382.3	1382.3	1382.7
16°	1371.8	1372.0	1372.7	1372.5	1372.0	1372.5	1372.7	1372.0	1371.8	1372.0	1372.7
16.5°	1361.4	1361.8	1362.6	1362.6	1362.4	1362.6	1362.6	1361.8	1361.4	1361.8	1362.6
17°	1351.6	1352.0	1352.8	1352.6	1352.8	1352.6	1352.8	1352.0	1351.6	1352.0	1352.8
17.5°	1341.9	1342.4	1343.0	1342.8	1342.6	1342.8	1343.0	1342.4	1341.9	1342.4	1343.0
18°	1332.5	1332.8	1333.2	1332.8	1332.3	1332.8	1333.2	1332.8	1332.5	1332.8	1333.2
18.5°	1322.5	1322.5	1322.5	1322.1	1321.5	1322.1	1322.5	1322.5	1322.5	1322.5	1322.5
19°	1312.3	1311.7	1311.2	1310.6	1310.0	1310.6	1311.2	1311.7	1312.3	1311.7	1311.2
19.5°	1301.0	1300.2	1298.9	1298.5	1297.9	1298.5	1298.9	1300.2	1301.0	1300.2	1298.9
20°	1288.7	1287.6	1285.3	1285.5	1284.1	1285.5	1285.3	1287.6	1288.7	1287.6	1285.3
20.5°	1275.1	1273.4	1270.7	1271.5	1269.9	1271.5	1270.7	1273.4	1275.1	1273.4	1270.7
21°	1260.9	1258.4	1255.2	1256.3	1254.2	1256.3	1255.2	1258.4	1260.9	1258.4	1255.2

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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°	<b>1208.9</b>	1206.4	1204.3	1204.1	1203.0	1204.1	1204.3	1206.4	1208.9	1206.4	1204.3
23°	<b>1189.0</b>	1186.9	1186.5	1185.0	1184.6	1185.0	1186.5	1186.9	1189.0	1186.9	1186.5
23.5°	<b>1168.7</b>	1166.9	1167.9	1165.4	1166.4	1165.4	1167.9	1166.9	1168.7	1166.9	1167.9
24°	<b>1147.6</b>	1146.2	1148.7	1145.3	1147.2	1145.3	1148.7	1146.2	1147.6	1146.2	1148.7
24.5°	<b>1125.9</b>	1125.3	1128.4	1125.1	1127.6	1125.1	1128.4	1125.3	1125.9	1125.3	1128.4
25°	<b>1103.1</b>	1103.6	1107.3	1104.8	1106.7	1104.8	1107.3	1103.6	1103.1	1103.6	1107.3
25.5°	<b>1079.5</b>	1082.2	1085.6	1084.5	1085.0	1084.5	1085.6	1082.2	1079.5	1082.2	1085.6
26°	<b>1055.3</b>	1060.1	1063.2	1063.4	1061.8	1063.4	1063.2	1060.1	1055.3	1060.1	1063.2
26.5°	<b>1030.4</b>	1037.5	1040.0	1041.5	1037.7	1041.5	1040.0	1037.5	1030.4	1037.5	1040.0
27°	<b>1006.2</b>	1014.1	1016.6	1018.9	1013.3	1018.9	1016.6	1014.1	1006.2	1014.1	1016.6
27.5°	<b>982.4</b>	989.9	992.8	995.8	988.4	995.8	992.8	989.9	982.4	989.9	992.8
28°	<b>958.6</b>	965.7	968.6	971.5	963.6	971.5	968.6	965.7	958.6	965.7	968.6
28.5°	<b>935.4</b>	941.0	944.4	946.9	939.6	946.9	944.4	941.0	935.4	941.0	944.4
29°	<b>912.4</b>	916.2	920.1	921.8	916.8	921.8	920.1	916.2	912.4	916.2	920.1
29.5°	<b>889.8</b>	891.7	896.1	896.7	894.4	896.7	896.1	891.7	889.8	891.7	896.1
30°	<b>867.3</b>	866.6	871.4	871.6	871.9	871.6	871.4	866.6	867.3	866.6	871.4
30.5°	<b>843.9</b>	842.4	847.0	847.4	850.5	847.4	847.0	842.4	843.9	842.4	847.0
31°	<b>820.7</b>	817.5	822.3	823.2	828.0	823.2	822.3	817.5	820.7	817.5	822.3
31.5°	<b>796.9</b>	793.7	797.7	799.2	805.2	799.2	797.7	793.7	796.9	793.7	797.7
32°	<b>772.6</b>	769.7	773.2	775.5	781.8	775.5	773.2	769.7	772.6	769.7	773.2
32.5°	<b>749.2</b>	746.7	749.2	752.1	758.4	752.1	749.2	746.7	749.2	746.7	749.2
33°	<b>725.6</b>	723.7	724.6	728.7	734.6	728.7	724.6	723.7	725.6	723.7	724.6
33.5°	<b>704.5</b>	700.7	700.1	705.3	710.6	705.3	700.1	700.7	704.5	700.7	700.1
34°	<b>681.7</b>	677.8	675.9	682.4	687.8	682.4	675.9	677.8	681.7	677.8	675.9
34.5°	<b>659.2</b>	655.0	652.3	659.2	665.2	659.2	652.3	655.0	659.2	655.0	652.3
35°	<b>636.4</b>	632.8	629.9	636.8	643.3	636.8	629.9	632.8	636.4	632.8	629.9
35.5°	<b>614.2</b>	610.9	607.8	614.7	621.8	614.7	607.8	610.9	614.2	610.9	607.8
36°	<b>592.5</b>	589.0	586.3	593.4	600.7	593.4	586.3	589.0	592.5	589.0	586.3
36.5°	<b>571.0</b>	567.9	565.4	572.3	579.1	572.3	565.4	567.9	571.0	567.9	565.4
37°	<b>549.3</b>	547.0	544.9	551.8	557.8	551.8	544.9	547.0	549.3	547.0	544.9
37.5°	<b>528.2</b>	526.7	525.2	532.1	536.5	532.1	525.2	526.7	528.2	526.7	525.2
38°	<b>507.3</b>	507.1	506.4	512.9	515.4	512.9	506.4	507.1	507.3	507.1	506.4
38.5°	<b>487.6</b>	488.1	488.5	494.1	495.2	494.1	488.5	488.1	487.6	488.1	488.5
39°	<b>468.6</b>	469.7	470.5	475.9	475.7	475.9	470.5	469.7	468.6	469.7	470.5
39.5°	<b>450.0</b>	451.9	453.4	458.0	457.3	458.0	453.4	451.9	450.0	451.9	453.4
40°	<b>432.3</b>	434.4	436.9	440.6	439.8	440.6	436.9	434.4	432.3	434.4	436.9
40.5°	<b>415.6</b>	417.6	421.0	423.7	423.5	423.7	421.0	417.6	415.6	417.6	421.0
41°	<b>399.5</b>	401.6	405.9	407.8	408.5	407.8	405.9	401.6	399.5	401.6	405.9
41.5°	<b>384.2</b>	386.5	391.5	392.6	394.5	392.6	391.5	386.5	384.2	386.5	391.5
42°	<b>370.0</b>	372.3	377.7	378.4	380.9	378.4	377.7	372.3	370.0	372.3	377.7
42.5°	<b>356.6</b>	358.9	364.8	365.0	367.7	365.0	364.8	358.9	356.6	358.9	364.8
43°	<b>343.9</b>	346.4	352.0	352.5	355.0	352.5	352.0	346.4	343.9	346.4	352.0
43.5°	<b>332.2</b>	334.7	340.1	340.3	342.6	340.3	340.1	334.7	332.2	334.7	340.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	302.1	304.2	307.5	308.6	309.6	308.6	307.5	304.2	302.1	304.2	307.5
45.5°	293.3	295.0	298.1	299.2	300.0	299.2	298.1	295.0	293.3	295.0	298.1
46°	285.0	286.4	289.2	290.6	291.0	290.6	289.2	286.4	285.0	286.4	289.2
46.5°	277.2	278.5	280.6	282.3	282.7	282.3	280.6	278.5	277.2	278.5	280.6
47°	269.9	270.8	272.9	274.5	275.2	274.5	272.9	270.8	269.9	270.8	272.9
47.5°	263.0	263.7	265.5	267.4	268.3	267.4	265.5	263.7	263.0	263.7	265.5
48°	256.6	257.4	259.3	261.0	261.8	261.0	259.3	257.4	256.6	257.4	259.3
48.5°	251.3	251.8	253.2	254.9	255.5	254.9	253.2	251.8	251.3	251.8	253.2
49°	246.3	246.5	247.8	249.0	249.7	249.0	247.8	246.5	246.3	246.5	247.8
49.5°	241.5	241.7	242.6	243.6	243.8	243.6	242.6	241.7	241.5	241.7	242.6
50°	236.5	236.7	237.3	238.2	238.4	238.2	237.3	236.7	236.5	236.7	237.3
50.5°	231.5	231.7	232.1	233.0	233.0	233.0	232.1	231.7	231.5	231.7	232.1
51°	225.9	226.3	226.9	227.7	227.7	227.7	226.9	226.3	225.9	226.3	226.9
51.5°	220.4	220.6	221.5	222.5	222.7	222.5	221.5	220.6	220.4	220.6	221.5
52°	214.8	215.2	216.0	217.1	217.3	217.1	216.0	215.2	214.8	215.2	216.0
52.5°	209.1	209.6	210.6	211.4	211.9	211.4	210.6	209.6	209.1	209.6	210.6
53°	203.9	204.3	205.2	206.0	206.4	206.0	205.2	204.3	203.9	204.3	205.2
53.5°	198.5	198.9	199.7	200.8	201.2	200.8	199.7	198.9	198.5	198.9	199.7
54°	193.5	193.7	194.5	195.3	195.8	195.3	194.5	193.7	193.5	193.7	194.5
54.5°	188.5	188.7	189.5	190.3	190.8	190.3	189.5	188.7	188.5	188.7	189.5
55°	183.4	183.9	184.7	185.3	185.5	185.3	184.7	183.9	183.4	183.9	184.7
55.5°	178.6	179.1	179.9	180.5	180.7	180.5	179.9	179.1	178.6	179.1	179.9
56°	174.0	174.5	175.1	175.7	175.9	175.7	175.1	174.5	174.0	174.5	175.1
56.5°	169.4	169.9	170.5	171.1	171.3	171.1	170.5	169.9	169.4	169.9	170.5
57°	164.8	165.3	165.9	166.5	166.7	166.5	165.9	165.3	164.8	165.3	165.9
57.5°	160.2	160.9	161.5	161.9	162.3	161.9	161.5	160.9	160.2	160.9	161.5
58°	156.3	156.5	157.1	157.7	157.9	157.7	157.1	156.5	156.3	156.5	157.1
58.5°	152.1	152.3	152.9	153.4	153.6	153.4	152.9	152.3	152.1	152.3	152.9
59°	147.9	148.1	148.5	149.0	149.4	149.0	148.5	148.1	147.9	148.1	148.5
59.5°	143.7	144.0	144.4	145.0	145.2	145.0	144.4	144.0	143.7	144.0	144.4
60°	139.8	140.0	140.4	140.8	141.0	140.8	140.4	140.0	139.8	140.0	140.4
60.5°	135.8	136.0	136.4	136.8	137.1	136.8	136.4	136.0	135.8	136.0	136.4
61°	132.0	132.3	132.7	133.1	133.3	133.1	132.7	132.3	132.0	132.3	132.7
61.5°	128.3	128.5	128.9	129.3	129.5	129.3	128.9	128.5	128.3	128.5	128.9
62°	124.7	124.7	125.1	125.6	125.6	125.6	125.1	124.7	124.7	124.7	125.1
62.5°	121.0	121.2	121.4	121.8	122.0	121.8	121.4	121.2	121.0	121.2	121.4
63°	117.4	117.6	117.8	118.3	118.3	118.3	117.8	117.6	117.4	117.6	117.8
63.5°	113.9	114.1	114.3	114.7	114.9	114.7	114.3	114.1	113.9	114.1	114.3
64°	110.5	110.7	110.9	111.1	111.4	111.1	110.9	110.7	110.5	110.7	110.9
64.5°	107.2	107.4	107.6	107.8	108.0	107.8	107.6	107.4	107.2	107.4	107.6
65°	103.8	104.0	104.3	104.5	104.7	104.5	104.3	104.0	103.8	104.0	104.3
65.5°	100.7	100.7	100.9	101.3	101.3	101.3	100.9	100.7	100.7	100.7	100.9
66°	97.4	97.6	97.8	98.0	98.2	98.0	97.8	97.6	97.4	97.6	97.8





TEST NUMBER: P775923

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	88.2	88.4	88.6	88.8	88.8	88.8	88.6	88.4	88.2	88.4	88.6
68°	85.2	85.5	85.7	85.9	85.9	85.9	85.7	85.5	85.2	85.5	85.7
68.5°	82.3	82.5	82.7	82.7	82.9	82.7	82.7	82.5	82.3	82.5	82.7
69°	79.6	79.6	79.6	80.0	80.0	80.0	79.6	79.6	79.6	79.6	79.6
69.5°	76.7	76.9	76.9	77.1	77.3	77.1	76.9	76.9	76.7	76.9	76.9
70°	74.2	74.4	74.2	74.4	74.6	74.4	74.2	74.4	74.2	74.4	74.2
70.5°	71.5	71.7	71.7	71.7	71.9	71.7	71.7	71.7	71.5	71.7	71.7
71°	68.9	68.9	68.9	68.9	69.2	68.9	68.9	68.9	68.9	68.9	68.9
71.5°	66.2	66.2	66.4	66.4	66.4	66.4	66.4	66.2	66.2	66.2	66.4
72°	63.7	63.7	63.7	63.9	63.9	63.9	63.7	63.7	63.7	63.7	63.7
72.5°	61.2	61.2	61.2	61.4	61.4	61.4	61.2	61.2	61.2	61.2	61.2
73°	58.7	58.7	58.7	58.9	58.9	58.9	58.7	58.7	58.7	58.7	58.7
73.5°	56.2	56.2	56.4	56.4	56.4	56.4	56.4	56.2	56.2	56.2	56.4
74°	53.9	53.9	53.9	54.1	54.1	54.1	53.9	53.9	53.9	53.9	53.9
74.5°	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
75°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
75.5°	47.0	47.0	47.0	47.0	47.2	47.0	47.0	47.0	47.0	47.0	47.0
76°	44.9	44.7	44.7	44.9	44.9	44.9	44.7	44.7	44.9	44.7	44.7
76.5°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
77°	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
77.5°	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
78°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
78.5°	34.5	34.5	34.3	34.3	34.5	34.3	34.3	34.5	34.5	34.5	34.3
79°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
79.5°	30.5	30.5	30.3	30.5	30.5	30.5	30.3	30.5	30.5	30.5	30.3
80°	28.6	28.6	28.4	28.4	28.4	28.4	28.4	28.6	28.6	28.6	28.4
80.5°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
81°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
81.5°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
82°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
82.5°	19.6	19.6	19.6	19.6	19.4	19.6	19.6	19.6	19.6	19.6	19.6
83°	18.0	18.0	18.0	17.8	17.8	17.8	18.0	18.0	18.0	18.0	18.0
83.5°	16.3	16.3	16.3	16.1	16.1	16.1	16.3	16.3	16.3	16.3	16.3
84°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
84.5°	13.2	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.2	13.0	13.0
85°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
85.5°	10.0	9.8	10.0	9.8	10.0	9.8	10.0	9.8	10.0	9.8	10.0
86°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
86.5°	7.1	6.9	6.9	6.9	7.1	6.9	6.9	6.9	7.1	6.9	6.9
87°	5.6	5.6	5.6	5.4	5.6	5.4	5.6	5.6	5.6	5.6	5.6
87.5°	4.2	4.2	4.2	4.2	4.4	4.2	4.2	4.2	4.2	4.2	4.2
88°	2.7	2.9	2.9	3.1	3.1	3.1	2.9	2.9	2.7	2.9	2.9
88.5°	1.7	1.7	1.9	2.1	2.5	2.1	1.9	1.7	1.7	1.7	1.9



TEST NUMBER: P775923  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.2	0.4	0.6	0.4	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P775923

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1
0.5°	1559.4	1558.8	1559.4	1559.7	1560.1	1560.3
1°	1559.0	1558.2	1559.0	1559.2	1559.4	1559.7
1.5°	1558.0	1557.4	1558.0	1558.4	1558.4	1558.8
2°	1556.7	1555.9	1556.7	1556.9	1557.4	1557.6
2.5°	1555.1	1554.0	1555.1	1555.3	1555.7	1556.1
3°	1552.8	1551.7	1552.8	1553.2	1553.6	1554.0
3.5°	1550.2	1549.6	1550.2	1550.7	1551.3	1551.7
4°	1547.5	1546.5	1547.5	1548.0	1548.8	1549.0
4.5°	1544.4	1543.1	1544.4	1544.8	1545.7	1546.1
5°	1541.3	1539.8	1541.3	1541.7	1542.5	1543.1
5.5°	1537.1	1535.8	1537.1	1537.5	1538.5	1540.0
6°	1532.7	1531.0	1532.7	1533.3	1534.4	1535.2
6.5°	1527.9	1526.2	1527.9	1528.5	1529.8	1530.4
7°	1522.9	1521.4	1522.9	1523.9	1524.6	1525.4
7.5°	1517.7	1516.2	1517.7	1518.1	1518.9	1519.7
8°	1511.6	1510.8	1511.6	1512.2	1513.1	1513.7
8.5°	1505.1	1504.3	1505.1	1505.7	1506.6	1507.4
9°	1498.4	1497.6	1498.4	1499.1	1500.1	1500.7
9.5°	1491.3	1490.5	1491.3	1492.0	1493.0	1493.4
10°	1483.8	1482.8	1483.8	1484.6	1485.5	1486.1
10.5°	1475.9	1475.0	1475.9	1476.5	1477.5	1478.0
11°	1467.7	1466.7	1467.7	1468.6	1469.4	1469.8
11.5°	1459.2	1458.3	1459.2	1460.0	1460.8	1461.2
12°	1450.4	1449.5	1450.4	1451.4	1452.1	1452.5
12.5°	1441.2	1440.1	1441.2	1442.2	1442.9	1443.3
13°	1432.0	1431.0	1432.0	1432.8	1433.5	1433.9
13.5°	1422.4	1421.5	1422.4	1423.2	1423.6	1424.1
14°	1412.6	1411.7	1412.6	1413.4	1413.8	1414.0
14.5°	1402.3	1401.5	1402.3	1403.2	1403.4	1403.6
15°	1392.3	1391.5	1392.3	1392.7	1393.1	1393.1
15.5°	1382.3	1381.9	1382.3	1382.7	1382.3	1382.3
16°	1372.5	1372.0	1372.5	1372.7	1372.0	1371.8
16.5°	1362.6	1362.4	1362.6	1362.6	1361.8	1361.4
17°	1352.6	1352.8	1352.6	1352.8	1352.0	1351.6
17.5°	1342.8	1342.6	1342.8	1343.0	1342.4	1341.9
18°	1332.8	1332.3	1332.8	1333.2	1332.8	1332.5
18.5°	1322.1	1321.5	1322.1	1322.5	1322.5	1322.5
19°	1310.6	1310.0	1310.6	1311.2	1311.7	1312.3
19.5°	1298.5	1297.9	1298.5	1298.9	1300.2	1301.0
20°	1285.5	1284.1	1285.5	1285.3	1287.6	1288.7
20.5°	1271.5	1269.9	1271.5	1270.7	1273.4	1275.1
21°	1256.3	1254.2	1256.3	1255.2	1258.4	1260.9



TEST NUMBER: P775923

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1204.1	1203.0	1204.1	1204.3	1206.4	1208.9
23°	1185.0	1184.6	1185.0	1186.5	1186.9	1189.0
23.5°	1165.4	1166.4	1165.4	1167.9	1166.9	1168.7
24°	1145.3	1147.2	1145.3	1148.7	1146.2	1147.6
24.5°	1125.1	1127.6	1125.1	1128.4	1125.3	1125.9
25°	1104.8	1106.7	1104.8	1107.3	1103.6	1103.1
25.5°	1084.5	1085.0	1084.5	1085.6	1082.2	1079.5
26°	1063.4	1061.8	1063.4	1063.2	1060.1	1055.3
26.5°	1041.5	1037.7	1041.5	1040.0	1037.5	1030.4
27°	1018.9	1013.3	1018.9	1016.6	1014.1	1006.2
27.5°	995.8	988.4	995.8	992.8	989.9	982.4
28°	971.5	963.6	971.5	968.6	965.7	958.6
28.5°	946.9	939.6	946.9	944.4	941.0	935.4
29°	921.8	916.8	921.8	920.1	916.2	912.4
29.5°	896.7	894.4	896.7	896.1	891.7	889.8
30°	871.6	871.9	871.6	871.4	866.6	867.3
30.5°	847.4	850.5	847.4	847.0	842.4	843.9
31°	823.2	828.0	823.2	822.3	817.5	820.7
31.5°	799.2	805.2	799.2	797.7	793.7	796.9
32°	775.5	781.8	775.5	773.2	769.7	772.6
32.5°	752.1	758.4	752.1	749.2	746.7	749.2
33°	728.7	734.6	728.7	724.6	723.7	725.6
33.5°	705.3	710.6	705.3	700.1	700.7	704.5
34°	682.4	687.8	682.4	675.9	677.8	681.7
34.5°	659.2	665.2	659.2	652.3	655.0	659.2
35°	636.8	643.3	636.8	629.9	632.8	636.4
35.5°	614.7	621.8	614.7	607.8	610.9	614.2
36°	593.4	600.7	593.4	586.3	589.0	592.5
36.5°	572.3	579.1	572.3	565.4	567.9	571.0
37°	551.8	557.8	551.8	544.9	547.0	549.3
37.5°	532.1	536.5	532.1	525.2	526.7	528.2
38°	512.9	515.4	512.9	506.4	507.1	507.3
38.5°	494.1	495.2	494.1	488.5	488.1	487.6
39°	475.9	475.7	475.9	470.5	469.7	468.6
39.5°	458.0	457.3	458.0	453.4	451.9	450.0
40°	440.6	439.8	440.6	436.9	434.4	432.3
40.5°	423.7	423.5	423.7	421.0	417.6	415.6
41°	407.8	408.5	407.8	405.9	401.6	399.5
41.5°	392.6	394.5	392.6	391.5	386.5	384.2
42°	378.4	380.9	378.4	377.7	372.3	370.0
42.5°	365.0	367.7	365.0	364.8	358.9	356.6
43°	352.5	355.0	352.5	352.0	346.4	343.9
43.5°	340.3	342.6	340.3	340.1	334.7	332.2



TEST NUMBER: P775923

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	308.6	309.6	308.6	307.5	304.2	302.1
45.5°	299.2	300.0	299.2	298.1	295.0	293.3
46°	290.6	291.0	290.6	289.2	286.4	285.0
46.5°	282.3	282.7	282.3	280.6	278.5	277.2
47°	274.5	275.2	274.5	272.9	270.8	269.9
47.5°	267.4	268.3	267.4	265.5	263.7	263.0
48°	261.0	261.8	261.0	259.3	257.4	256.6
48.5°	254.9	255.5	254.9	253.2	251.8	251.3
49°	249.0	249.7	249.0	247.8	246.5	246.3
49.5°	243.6	243.8	243.6	242.6	241.7	241.5
50°	238.2	238.4	238.2	237.3	236.7	236.5
50.5°	233.0	233.0	233.0	232.1	231.7	231.5
51°	227.7	227.7	227.7	226.9	226.3	225.9
51.5°	222.5	222.7	222.5	221.5	220.6	220.4
52°	217.1	217.3	217.1	216.0	215.2	214.8
52.5°	211.4	211.9	211.4	210.6	209.6	209.1
53°	206.0	206.4	206.0	205.2	204.3	203.9
53.5°	200.8	201.2	200.8	199.7	198.9	198.5
54°	195.3	195.8	195.3	194.5	193.7	193.5
54.5°	190.3	190.8	190.3	189.5	188.7	188.5
55°	185.3	185.5	185.3	184.7	183.9	183.4
55.5°	180.5	180.7	180.5	179.9	179.1	178.6
56°	175.7	175.9	175.7	175.1	174.5	174.0
56.5°	171.1	171.3	171.1	170.5	169.9	169.4
57°	166.5	166.7	166.5	165.9	165.3	164.8
57.5°	161.9	162.3	161.9	161.5	160.9	160.2
58°	157.7	157.9	157.7	157.1	156.5	156.3
58.5°	153.4	153.6	153.4	152.9	152.3	152.1
59°	149.0	149.4	149.0	148.5	148.1	147.9
59.5°	145.0	145.2	145.0	144.4	144.0	143.7
60°	140.8	141.0	140.8	140.4	140.0	139.8
60.5°	136.8	137.1	136.8	136.4	136.0	135.8
61°	133.1	133.3	133.1	132.7	132.3	132.0
61.5°	129.3	129.5	129.3	128.9	128.5	128.3
62°	125.6	125.6	125.6	125.1	124.7	124.7
62.5°	121.8	122.0	121.8	121.4	121.2	121.0
63°	118.3	118.3	118.3	117.8	117.6	117.4
63.5°	114.7	114.9	114.7	114.3	114.1	113.9
64°	111.1	111.4	111.1	110.9	110.7	110.5
64.5°	107.8	108.0	107.8	107.6	107.4	107.2
65°	104.5	104.7	104.5	104.3	104.0	103.8
65.5°	101.3	101.3	101.3	100.9	100.7	100.7
66°	98.0	98.2	98.0	97.8	97.6	97.4



TEST NUMBER: P775923

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	88.8	88.8	88.8	88.6	88.4	88.2
68°	85.9	85.9	85.9	85.7	85.5	85.2
68.5°	82.7	82.9	82.7	82.7	82.5	82.3
69°	80.0	80.0	80.0	79.6	79.6	79.6
69.5°	77.1	77.3	77.1	76.9	76.9	76.7
70°	74.4	74.6	74.4	74.2	74.4	74.2
70.5°	71.7	71.9	71.7	71.7	71.7	71.5
71°	68.9	69.2	68.9	68.9	68.9	68.9
71.5°	66.4	66.4	66.4	66.4	66.2	66.2
72°	63.9	63.9	63.9	63.7	63.7	63.7
72.5°	61.4	61.4	61.4	61.2	61.2	61.2
73°	58.9	58.9	58.9	58.7	58.7	58.7
73.5°	56.4	56.4	56.4	56.4	56.2	56.2
74°	54.1	54.1	54.1	53.9	53.9	53.9
74.5°	51.6	51.6	51.6	51.6	51.6	51.6
75°	49.3	49.3	49.3	49.3	49.3	49.3
75.5°	47.0	47.2	47.0	47.0	47.0	47.0
76°	44.9	44.9	44.9	44.7	44.7	44.9
76.5°	42.6	42.6	42.6	42.6	42.6	42.6
77°	40.5	40.5	40.5	40.5	40.5	40.5
77.5°	38.4	38.4	38.4	38.4	38.4	38.4
78°	36.4	36.4	36.4	36.4	36.4	36.4
78.5°	34.3	34.5	34.3	34.3	34.5	34.5
79°	32.4	32.4	32.4	32.4	32.4	32.4
79.5°	30.5	30.5	30.5	30.3	30.5	30.5
80°	28.4	28.4	28.4	28.4	28.6	28.6
80.5°	26.7	26.7	26.7	26.7	26.7	26.7
81°	24.9	24.9	24.9	24.9	24.9	24.9
81.5°	23.0	23.0	23.0	23.0	23.0	23.0
82°	21.3	21.3	21.3	21.3	21.3	21.3
82.5°	19.6	19.4	19.6	19.6	19.6	19.6
83°	17.8	17.8	17.8	18.0	18.0	18.0
83.5°	16.1	16.1	16.1	16.3	16.3	16.3
84°	14.6	14.6	14.6	14.6	14.6	14.6
84.5°	13.0	13.0	13.0	13.0	13.0	13.2
85°	11.5	11.5	11.5	11.5	11.5	11.5
85.5°	9.8	10.0	9.8	10.0	9.8	10.0
86°	8.4	8.4	8.4	8.4	8.4	8.4
86.5°	6.9	7.1	6.9	6.9	6.9	7.1
87°	5.4	5.6	5.4	5.6	5.6	5.6
87.5°	4.2	4.4	4.2	4.2	4.2	4.2
88°	3.1	3.1	3.1	2.9	2.9	2.7
88.5°	2.1	2.5	2.1	1.9	1.7	1.7



TEST NUMBER: P775923

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.4	0.6	0.4	0.2	0.0	0.0

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

Scaled Data Report



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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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Cooper Lighting Solutions Photometric Lab  
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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1244.4	1242.3	1238.7	1239.8	1237.7	1239.8	1238.7	1242.3	1244.4	1242.3	1238.7
22°	1227.0	1224.9	1221.8	1222.2	1220.1	1222.2	1221.8	1224.9	1227.0	1224.9	1221.8



44°	321.3	323.8	328.6	329.1	331.2	329.1	328.6	323.8	321.3	323.8	328.6
44.5°	311.3	313.8	318.0	318.6	320.1	318.6	318.0	313.8	311.3	313.8	318.0



66.5°	94.2	94.4	94.6	94.9	95.1	94.9	94.6	94.4	94.2	94.4	94.6
67°	91.3	91.3	91.5	91.7	91.9	91.7	91.5	91.3	91.3	91.3	91.5



89°	0.6	0.8	1.3	1.5	1.7	1.5	1.3	0.8	0.6	0.8	1.3
89.5°	0.0	0.2	0.6	0.8	1.0	0.8	0.6	0.2	0.0	0.2	0.6



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Scaled Data Report





21.5°	1239.8	1237.7	1239.8	1238.7	1242.3	1244.4
22°	1222.2	1220.1	1222.2	1221.8	1224.9	1227.0



44°	329.1	331.2	329.1	328.6	323.8	321.3
44.5°	318.6	320.1	318.6	318.0	313.8	311.3



66.5°	94.9	95.1	94.9	94.6	94.4	94.2
67°	91.7	91.9	91.7	91.5	91.3	91.3



89°	1.5	1.7	1.5	1.3	0.8	0.6
89.5°	0.8	1.0	0.8	0.6	0.2	0.0

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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)