

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: P776674

Luminaire Tested: HCDJBS4050CSD-HCD62TRC-5000lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B055-HCD62TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD62TRC-5000lm-5000K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5626.8 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

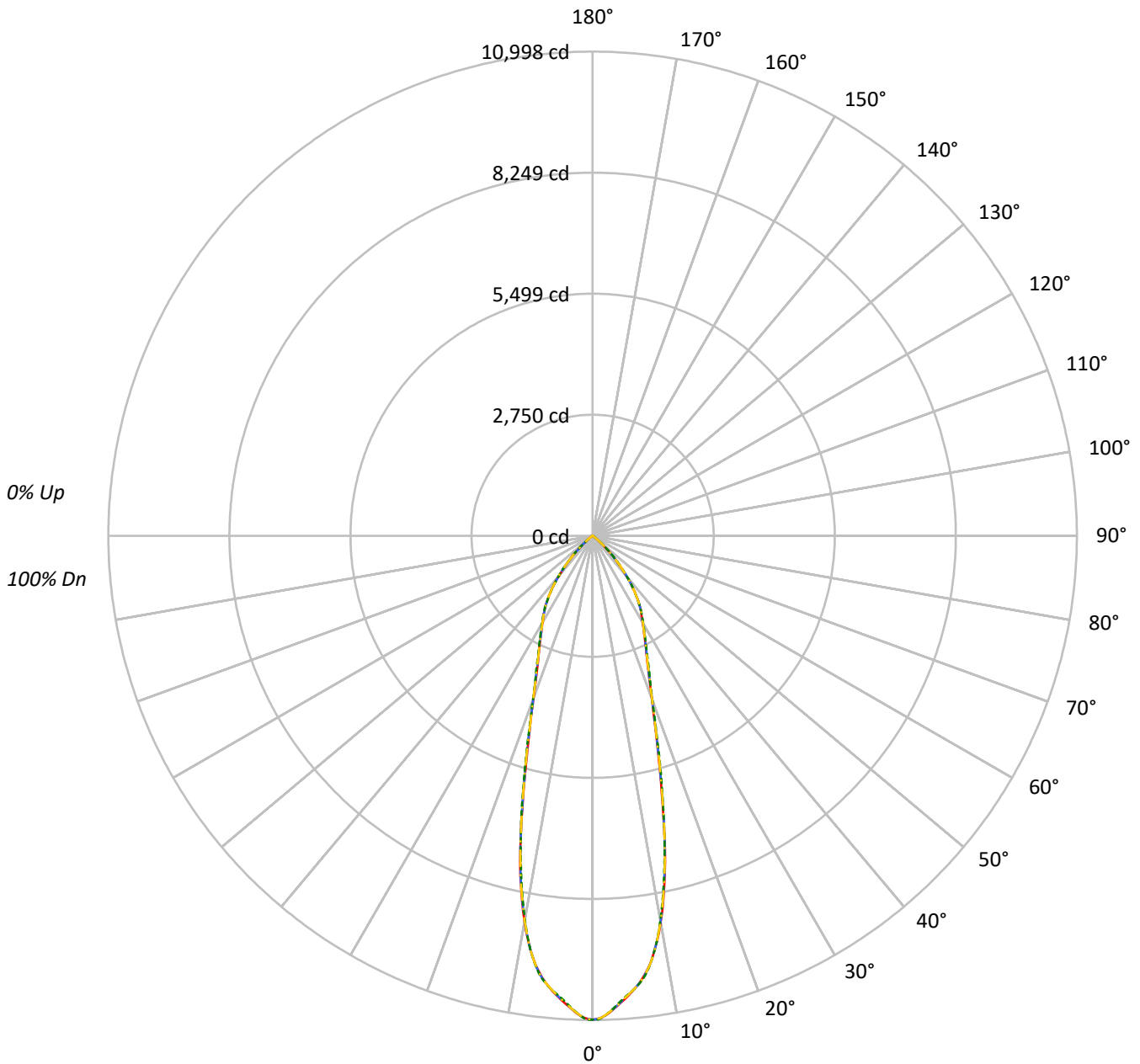
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776674

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57								
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	602594	602594	602594	602594
5°	571548	570910	571548	570910
10°	495716	492882	495716	492882
15°	344803	348856	344803	348856
20°	228827	231259	228827	231259
25°	173931	176399	173931	176399
30°	143820	145567	143820	145567
35°	120361	120462	120361	120462
40°	85725	87077	85725	87077
45°	48075	50447	48075	50447
50°	16358	19462	16358	19462
55°	1156	2504	1156	2504
60°	208	208	208	208
65°	130	130	130	130
70°	80	80	80	80
75°	106	106	106	106
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 50447 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.9	16.8
10°-20°	1687.0	30.0
20°-30°	1347.1	23.9
30°-40°	1102.7	19.6
40°-50°	498.0	8.9
50°-60°	42.6	0.8
60°-70°	1.0	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°	3982.1	70.8
0°-40°	5084.8	90.4
0°-60°	5625.4	100.0
0°-90°	5626.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5626.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10992	10992	10992	10992	10992	
5°	10386	10375	10386	10375	10386	948
15°	6075	6147	6075	6147	6075	1684
25°	2876	2916	2876	2916	2876	1340
35°	1798	1800	1798	1800	1798	1100
45°	620	651	620	651	620	489
55°	12	26	12	26	12	38
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	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°	10992.2	10992.2	10992.2	10992.2	10992.2	10992.2	10992.2	10992.2	10992.2	10992.2	10992.2
0.5°	10979.1	10979.1	10979.1	10981.0	10998.0	10981.0	10979.1	10979.1	10979.1	10979.1	10979.1
1°	10950.0	10950.0	10948.5	10949.0	10960.6	10949.0	10948.5	10950.0	10950.0	10950.0	10948.5
1.5°	10902.4	10901.9	10898.0	10895.6	10902.9	10895.6	10898.0	10901.9	10902.4	10901.9	10898.0
2°	10842.2	10839.2	10833.9	10828.1	10829.1	10828.1	10833.9	10839.2	10842.2	10839.2	10833.9
2.5°	10770.3	10768.4	10760.6	10750.9	10748.0	10750.9	10760.6	10768.4	10770.3	10768.4	10760.6
3°	10694.6	10692.1	10683.4	10670.3	10664.9	10670.3	10683.4	10692.1	10694.6	10692.1	10683.4
3.5°	10618.8	10615.4	10605.2	10592.1	10585.3	10592.1	10605.2	10615.4	10618.8	10615.4	10605.2
4°	10543.5	10538.2	10528.5	10518.3	10511.5	10518.3	10528.5	10538.2	10543.5	10538.2	10528.5
4.5°	10465.8	10461.0	10453.7	10446.9	10441.6	10446.9	10453.7	10461.0	10465.8	10461.0	10453.7
5°	10386.2	10382.8	10378.4	10375.5	10374.6	10375.5	10378.4	10382.8	10386.2	10382.8	10378.4
5.5°	10300.3	10298.3	10298.3	10300.3	10304.2	10300.3	10298.3	10298.3	10300.3	10298.3	10298.3
6°	10207.0	10207.0	10210.0	10217.7	10222.1	10217.7	10210.0	10207.0	10207.0	10207.0	10210.0
6.5°	10103.1	10105.6	10111.4	10119.6	10125.5	10119.6	10111.4	10105.6	10103.1	10105.6	10111.4
7°	9985.1	9990.0	9995.3	10004.1	10010.9	10004.1	9995.3	9990.0	9985.1	9990.0	9995.3
7.5°	9851.6	9853.6	9860.4	9866.7	9870.5	9866.7	9860.4	9853.6	9851.6	9853.6	9860.4
8°	9699.1	9700.1	9704.0	9707.9	9709.8	9707.9	9704.0	9700.1	9699.1	9700.1	9704.0
8.5°	9524.8	9524.8	9525.3	9524.3	9520.9	9524.3	9525.3	9524.8	9524.8	9524.8	9525.3
9°	9334.0	9333.5	9329.1	9322.3	9319.4	9322.3	9329.1	9333.5	9334.0	9333.5	9329.1
9.5°	9126.2	9124.7	9113.6	9103.8	9096.1	9103.8	9113.6	9124.7	9126.2	9124.7	9113.6
10°	8905.2	8900.4	8884.4	8866.4	8854.3	8866.4	8884.4	8900.4	8905.2	8900.4	8884.4
10.5°	8670.2	8660.0	8642.1	8620.2	8602.7	8620.2	8642.1	8660.0	8670.2	8660.0	8642.1
11°	8419.2	8410.5	8387.1	8369.2	8353.2	8369.2	8387.1	8410.5	8419.2	8410.5	8387.1
11.5°	8158.9	8151.2	8131.3	8105.0	8092.4	8105.0	8131.3	8151.2	8158.9	8151.2	8131.3
12°	7889.4	7883.1	7858.9	7834.6	7818.1	7834.6	7858.9	7883.1	7889.4	7883.1	7858.9
12.5°	7606.4	7595.7	7576.3	7553.0	7538.4	7553.0	7576.3	7595.7	7606.4	7595.7	7576.3
13°	7310.2	7304.8	7286.9	7273.3	7264.5	7273.3	7286.9	7304.8	7310.2	7304.8	7286.9
13.5°	6992.6	6996.5	6992.1	6987.3	6982.9	6987.3	6992.1	6996.5	6992.6	6996.5	6992.1
14°	6678.9	6685.7	6691.1	6697.9	6703.2	6697.9	6691.1	6685.7	6678.9	6685.7	6691.1
14.5°	6368.2	6378.9	6396.8	6414.3	6426.9	6414.3	6396.8	6378.9	6368.2	6378.9	6396.8
15°	6075.4	6084.1	6108.4	6131.2	6146.8	6131.2	6108.4	6084.1	6075.4	6084.1	6108.4
15.5°	5798.6	5810.3	5831.6	5856.9	5875.8	5856.9	5831.6	5810.3	5798.6	5810.3	5831.6
16°	5541.7	5549.0	5568.0	5598.1	5619.9	5598.1	5568.0	5549.0	5541.7	5549.0	5568.0
16.5°	5295.6	5301.4	5324.2	5351.4	5372.3	5351.4	5324.2	5301.4	5295.6	5301.4	5324.2
17°	5060.1	5066.4	5086.8	5114.0	5135.8	5114.0	5086.8	5066.4	5060.1	5066.4	5086.8
17.5°	4836.7	4843.0	4862.9	4885.3	4904.7	4885.3	4862.9	4843.0	4836.7	4843.0	4862.9
18°	4628.4	4633.7	4647.3	4668.7	4688.1	4668.7	4647.3	4633.7	4628.4	4633.7	4647.3
18.5°	4433.2	4434.7	4448.3	4474.5	4480.3	4474.5	4448.3	4434.7	4433.2	4434.7	4448.3
19°	4245.8	4249.7	4269.6	4294.3	4295.3	4294.3	4269.6	4249.7	4245.8	4249.7	4269.6
19.5°	4072.4	4083.1	4101.1	4122.4	4124.4	4122.4	4101.1	4083.1	4072.4	4083.1	4101.1
20°	3922.4	3924.8	3939.9	3961.7	3964.1	3961.7	3939.9	3924.8	3922.4	3924.8	3939.9
20.5°	3778.7	3782.5	3790.3	3809.7	3814.6	3809.7	3790.3	3782.5	3778.7	3782.5	3790.3
21°	3639.8	3646.1	3663.6	3675.2	3682.0	3675.2	3663.6	3646.1	3639.8	3646.1	3663.6



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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°	3297.0	3300.9	3322.2	3341.7	3360.1	3341.7	3322.2	3300.9	3297.0	3300.9	3322.2
23°	3202.3	3206.2	3219.8	3243.1	3264.0	3243.1	3219.8	3206.2	3202.3	3206.2	3219.8
23.5°	3113.0	3115.9	3129.0	3146.5	3169.8	3146.5	3129.0	3115.9	3113.0	3115.9	3129.0
24°	3028.5	3031.4	3043.0	3061.5	3077.0	3061.5	3043.0	3031.4	3028.5	3031.4	3043.0
24.5°	2950.3	2951.7	2961.0	2980.9	2993.5	2980.9	2961.0	2951.7	2950.3	2951.7	2961.0
25°	2875.5	2877.0	2884.3	2904.6	2916.3	2904.6	2884.3	2877.0	2875.5	2877.0	2884.3
25.5°	2803.6	2804.6	2812.4	2831.8	2842.5	2831.8	2812.4	2804.6	2803.6	2804.6	2812.4
26°	2734.7	2735.7	2743.0	2762.4	2773.1	2762.4	2743.0	2735.7	2734.7	2735.7	2743.0
26.5°	2667.2	2668.7	2675.5	2693.9	2704.6	2693.9	2675.5	2668.7	2667.2	2668.7	2675.5
27°	2604.1	2605.5	2611.4	2629.3	2641.5	2629.3	2611.4	2605.5	2604.1	2605.5	2611.4
27.5°	2544.4	2545.3	2550.7	2567.2	2578.8	2567.2	2550.7	2545.3	2544.4	2545.3	2550.7
28°	2486.6	2487.1	2492.9	2507.9	2518.6	2507.9	2492.9	2487.1	2486.6	2487.1	2492.9
28.5°	2430.7	2430.7	2436.6	2450.2	2461.3	2450.2	2436.6	2430.7	2430.7	2430.7	2436.6
29°	2376.8	2376.4	2381.2	2394.8	2405.0	2394.8	2381.2	2376.4	2376.8	2376.4	2381.2
29.5°	2322.9	2322.9	2328.8	2340.4	2350.6	2340.4	2328.8	2322.9	2322.9	2322.9	2328.8
30°	2272.0	2272.0	2277.8	2288.9	2299.6	2288.9	2277.8	2272.0	2272.0	2272.0	2277.8
30.5°	2222.9	2222.9	2228.3	2238.9	2249.1	2238.9	2228.3	2222.9	2222.9	2222.9	2228.3
31°	2176.3	2175.8	2182.1	2191.8	2202.0	2191.8	2182.1	2175.8	2176.3	2175.8	2182.1
31.5°	2131.6	2130.7	2136.0	2144.7	2154.9	2144.7	2136.0	2130.7	2131.6	2130.7	2136.0
32°	2088.9	2087.9	2092.8	2100.1	2107.3	2100.1	2092.8	2087.9	2088.9	2087.9	2092.8
32.5°	2046.2	2045.7	2047.6	2053.5	2058.3	2053.5	2047.6	2045.7	2046.2	2045.7	2047.6
33°	2002.0	2000.5	2000.5	2004.9	2009.3	2004.9	2000.5	2000.5	2002.0	2000.5	2000.5
33.5°	1954.9	1952.5	1952.9	1954.9	1961.2	1954.9	1952.9	1952.5	1954.9	1952.5	1952.9
34°	1904.9	1902.4	1902.4	1901.0	1907.8	1901.0	1902.4	1902.4	1904.9	1902.4	1902.4
34.5°	1852.9	1850.0	1851.0	1849.0	1854.9	1849.0	1851.0	1850.0	1852.9	1850.0	1851.0
35°	1798.5	1797.6	1797.1	1797.1	1800.0	1797.1	1797.1	1797.6	1798.5	1797.6	1797.1
35.5°	1743.2	1741.7	1741.2	1744.1	1744.1	1744.1	1741.2	1741.7	1743.2	1741.7	1741.2
36°	1686.4	1685.9	1685.9	1689.3	1686.8	1689.3	1685.9	1685.9	1686.4	1685.9	1685.9
36.5°	1627.1	1629.1	1629.1	1633.9	1630.0	1633.9	1629.1	1629.1	1627.1	1629.1	1629.1
37°	1567.4	1570.3	1572.3	1576.6	1571.8	1576.6	1572.3	1570.3	1567.4	1570.3	1572.3
37.5°	1508.6	1510.6	1516.9	1517.9	1514.0	1517.9	1516.9	1510.6	1508.6	1510.6	1516.9
38°	1449.4	1449.9	1457.7	1456.7	1456.2	1456.7	1457.7	1449.9	1449.4	1449.9	1457.7
38.5°	1389.2	1388.2	1397.5	1395.0	1397.0	1395.0	1397.5	1388.2	1389.2	1388.2	1397.5
39°	1326.1	1327.0	1337.2	1332.9	1338.2	1332.9	1337.2	1327.0	1326.1	1327.0	1337.2
39.5°	1262.0	1264.9	1276.5	1271.7	1277.5	1271.7	1276.5	1264.9	1262.0	1264.9	1276.5
40°	1197.9	1203.2	1215.4	1211.0	1216.8	1211.0	1215.4	1203.2	1197.9	1203.2	1215.4
40.5°	1136.7	1142.0	1153.2	1152.2	1156.1	1152.2	1153.2	1142.0	1136.7	1142.0	1153.2
41°	1076.5	1081.4	1091.1	1093.0	1095.4	1093.0	1091.1	1081.4	1076.5	1081.4	1091.1
41.5°	1017.3	1021.6	1028.9	1035.2	1036.2	1035.2	1028.9	1021.6	1017.3	1021.6	1028.9
42°	958.5	961.9	967.7	977.0	977.9	977.0	967.7	961.9	958.5	961.9	967.7
42.5°	901.2	903.6	907.5	919.7	922.1	919.7	907.5	903.6	901.2	903.6	907.5
43°	843.4	845.4	848.3	861.9	866.2	861.9	848.3	845.4	843.4	845.4	848.3
43.5°	786.6	787.1	791.0	804.6	810.9	804.6	791.0	787.1	786.6	787.1	791.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	620.1	621.5	628.3	642.9	650.7	642.9	628.3	621.5	620.1	621.5	628.3
45.5°	568.6	570.5	577.3	592.4	599.2	592.4	577.3	570.5	568.6	570.5	577.3
46°	520.0	520.5	527.8	541.9	549.7	541.9	527.8	520.5	520.0	520.5	527.8
46.5°	472.0	472.9	479.3	492.4	502.1	492.4	479.3	472.9	472.0	472.9	479.3
47°	425.4	426.3	433.6	446.2	455.9	446.2	433.6	426.3	425.4	426.3	433.6
47.5°	379.2	382.1	390.9	401.6	413.2	401.6	390.9	382.1	379.2	382.1	390.9
48°	337.5	339.4	349.6	360.3	370.5	360.3	349.6	339.4	337.5	339.4	349.6
48.5°	297.2	299.1	310.3	321.4	332.1	321.4	310.3	299.1	297.2	299.1	310.3
49°	259.8	261.7	273.4	284.5	297.2	284.5	273.4	261.7	259.8	261.7	273.4
49.5°	224.3	228.2	238.9	250.1	262.7	250.1	238.9	228.2	224.3	228.2	238.9
50°	191.8	196.2	207.3	217.5	228.2	217.5	207.3	196.2	191.8	196.2	207.3
50.5°	161.7	168.5	178.2	186.9	193.7	186.9	178.2	168.5	161.7	168.5	178.2
51°	135.5	142.3	151.0	158.3	162.2	158.3	151.0	142.3	135.5	142.3	151.0
51.5°	114.1	119.0	125.3	133.0	136.0	133.0	125.3	119.0	114.1	119.0	125.3
52°	94.7	99.1	103.9	110.7	112.2	110.7	103.9	99.1	94.7	99.1	103.9
52.5°	77.7	79.6	85.5	91.3	90.3	91.3	85.5	79.6	77.7	79.6	85.5
53°	60.7	64.1	68.0	72.8	71.9	72.8	68.0	64.1	60.7	64.1	68.0
53.5°	43.7	48.6	52.4	55.8	55.4	55.8	52.4	48.6	43.7	48.6	52.4
54°	31.6	33.5	37.9	42.2	45.6	42.2	37.9	33.5	31.6	33.5	37.9
54.5°	19.9	22.3	27.2	30.1	35.9	30.1	27.2	22.3	19.9	22.3	27.2
55°	12.1	14.1	18.5	20.9	26.2	20.9	18.5	14.1	12.1	14.1	18.5
55.5°	8.7	8.7	10.7	13.1	17.0	13.1	10.7	8.7	8.7	10.7	13.1
56°	6.3	5.8	6.8	8.3	8.7	8.3	6.8	5.8	6.3	5.8	6.8
56.5°	4.4	3.9	4.9	6.3	4.9	6.3	4.9	3.9	4.4	3.9	4.9
57°	2.4	3.4	3.4	4.4	2.9	4.4	3.4	3.4	2.4	3.4	3.4
57.5°	2.4	2.4	2.4	3.4	2.4	3.4	2.4	2.4	2.4	2.4	2.4
58°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
58.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
59°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
59.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
60.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
61°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
61.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
63°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
63.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
64°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
64.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
66°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P776674

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	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	0.5	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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	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: P776674
CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

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: P776674

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10992.2	10992.2	10992.2	10992.2	10992.2	10992.2
0.5°	10981.0	10998.0	10981.0	10979.1	10979.1	10979.1
1°	10949.0	10960.6	10949.0	10948.5	10950.0	10950.0
1.5°	10895.6	10902.9	10895.6	10898.0	10901.9	10902.4
2°	10828.1	10829.1	10828.1	10833.9	10839.2	10842.2
2.5°	10750.9	10748.0	10750.9	10760.6	10768.4	10770.3
3°	10670.3	10664.9	10670.3	10683.4	10692.1	10694.6
3.5°	10592.1	10585.3	10592.1	10605.2	10615.4	10618.8
4°	10518.3	10511.5	10518.3	10528.5	10538.2	10543.5
4.5°	10446.9	10441.6	10446.9	10453.7	10461.0	10465.8
5°	10375.5	10374.6	10375.5	10378.4	10382.8	10386.2
5.5°	10300.3	10304.2	10300.3	10298.3	10298.3	10300.3
6°	10217.7	10222.1	10217.7	10210.0	10207.0	10207.0
6.5°	10119.6	10125.5	10119.6	10111.4	10105.6	10103.1
7°	10004.1	10010.9	10004.1	9995.3	9990.0	9985.1
7.5°	9866.7	9870.5	9866.7	9860.4	9853.6	9851.6
8°	9707.9	9709.8	9707.9	9704.0	9700.1	9699.1
8.5°	9524.3	9520.9	9524.3	9525.3	9524.8	9524.8
9°	9322.3	9319.4	9322.3	9329.1	9333.5	9334.0
9.5°	9103.8	9096.1	9103.8	9113.6	9124.7	9126.2
10°	8866.4	8854.3	8866.4	8884.4	8900.4	8905.2
10.5°	8620.2	8602.7	8620.2	8642.1	8660.0	8670.2
11°	8369.2	8353.2	8369.2	8387.1	8410.5	8419.2
11.5°	8105.0	8092.4	8105.0	8131.3	8151.2	8158.9
12°	7834.6	7818.1	7834.6	7858.9	7883.1	7889.4
12.5°	7553.0	7538.4	7553.0	7576.3	7595.7	7606.4
13°	7273.3	7264.5	7273.3	7286.9	7304.8	7310.2
13.5°	6987.3	6982.9	6987.3	6992.1	6996.5	6992.6
14°	6697.9	6703.2	6697.9	6691.1	6685.7	6678.9
14.5°	6414.3	6426.9	6414.3	6396.8	6378.9	6368.2
15°	6131.2	6146.8	6131.2	6108.4	6084.1	6075.4
15.5°	5856.9	5875.8	5856.9	5831.6	5810.3	5798.6
16°	5598.1	5619.9	5598.1	5568.0	5549.0	5541.7
16.5°	5351.4	5372.3	5351.4	5324.2	5301.4	5295.6
17°	5114.0	5135.8	5114.0	5086.8	5066.4	5060.1
17.5°	4885.3	4904.7	4885.3	4862.9	4843.0	4836.7
18°	4668.7	4688.1	4668.7	4647.3	4633.7	4628.4
18.5°	4474.5	4480.3	4474.5	4448.3	4434.7	4433.2
19°	4294.3	4295.3	4294.3	4269.6	4249.7	4245.8
19.5°	4122.4	4124.4	4122.4	4101.1	4083.1	4072.4
20°	3961.7	3964.1	3961.7	3939.9	3924.8	3922.4
20.5°	3809.7	3814.6	3809.7	3790.3	3782.5	3778.7
21°	3675.2	3682.0	3675.2	3663.6	3646.1	3639.8

TEST NUMBER: P776674

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3341.7	3360.1	3341.7	3322.2	3300.9	3297.0
23°	3243.1	3264.0	3243.1	3219.8	3206.2	3202.3
23.5°	3146.5	3169.8	3146.5	3129.0	3115.9	3113.0
24°	3061.5	3077.0	3061.5	3043.0	3031.4	3028.5
24.5°	2980.9	2993.5	2980.9	2961.0	2951.7	2950.3
25°	2904.6	2916.3	2904.6	2884.3	2877.0	2875.5
25.5°	2831.8	2842.5	2831.8	2812.4	2804.6	2803.6
26°	2762.4	2773.1	2762.4	2743.0	2735.7	2734.7
26.5°	2693.9	2704.6	2693.9	2675.5	2668.7	2667.2
27°	2629.3	2641.5	2629.3	2611.4	2605.5	2604.1
27.5°	2567.2	2578.8	2567.2	2550.7	2545.3	2544.4
28°	2507.9	2518.6	2507.9	2492.9	2487.1	2486.6
28.5°	2450.2	2461.3	2450.2	2436.6	2430.7	2430.7
29°	2394.8	2405.0	2394.8	2381.2	2376.4	2376.8
29.5°	2340.4	2350.6	2340.4	2328.8	2322.9	2322.9
30°	2288.9	2299.6	2288.9	2277.8	2272.0	2272.0
30.5°	2238.9	2249.1	2238.9	2228.3	2222.9	2222.9
31°	2191.8	2202.0	2191.8	2182.1	2175.8	2176.3
31.5°	2144.7	2154.9	2144.7	2136.0	2130.7	2131.6
32°	2100.1	2107.3	2100.1	2092.8	2087.9	2088.9
32.5°	2053.5	2058.3	2053.5	2047.6	2045.7	2046.2
33°	2004.9	2009.3	2004.9	2000.5	2000.5	2002.0
33.5°	1954.9	1961.2	1954.9	1952.9	1952.5	1954.9
34°	1901.0	1907.8	1901.0	1902.4	1902.4	1904.9
34.5°	1849.0	1854.9	1849.0	1851.0	1850.0	1852.9
35°	1797.1	1800.0	1797.1	1797.1	1797.6	1798.5
35.5°	1744.1	1744.1	1744.1	1741.2	1741.7	1743.2
36°	1689.3	1686.8	1689.3	1685.9	1685.9	1686.4
36.5°	1633.9	1630.0	1633.9	1629.1	1629.1	1627.1
37°	1576.6	1571.8	1576.6	1572.3	1570.3	1567.4
37.5°	1517.9	1514.0	1517.9	1516.9	1510.6	1508.6
38°	1456.7	1456.2	1456.7	1457.7	1449.9	1449.4
38.5°	1395.0	1397.0	1395.0	1397.5	1388.2	1389.2
39°	1332.9	1338.2	1332.9	1337.2	1327.0	1326.1
39.5°	1271.7	1277.5	1271.7	1276.5	1264.9	1262.0
40°	1211.0	1216.8	1211.0	1215.4	1203.2	1197.9
40.5°	1152.2	1156.1	1152.2	1153.2	1142.0	1136.7
41°	1093.0	1095.4	1093.0	1091.1	1081.4	1076.5
41.5°	1035.2	1036.2	1035.2	1028.9	1021.6	1017.3
42°	977.0	977.9	977.0	967.7	961.9	958.5
42.5°	919.7	922.1	919.7	907.5	903.6	901.2
43°	861.9	866.2	861.9	848.3	845.4	843.4
43.5°	804.6	810.9	804.6	791.0	787.1	786.6



TEST NUMBER: P776674

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	642.9	650.7	642.9	628.3	621.5	620.1
45.5°	592.4	599.2	592.4	577.3	570.5	568.6
46°	541.9	549.7	541.9	527.8	520.5	520.0
46.5°	492.4	502.1	492.4	479.3	472.9	472.0
47°	446.2	455.9	446.2	433.6	426.3	425.4
47.5°	401.6	413.2	401.6	390.9	382.1	379.2
48°	360.3	370.5	360.3	349.6	339.4	337.5
48.5°	321.4	332.1	321.4	310.3	299.1	297.2
49°	284.5	297.2	284.5	273.4	261.7	259.8
49.5°	250.1	262.7	250.1	238.9	228.2	224.3
50°	217.5	228.2	217.5	207.3	196.2	191.8
50.5°	186.9	193.7	186.9	178.2	168.5	161.7
51°	158.3	162.2	158.3	151.0	142.3	135.5
51.5°	133.0	136.0	133.0	125.3	119.0	114.1
52°	110.7	112.2	110.7	103.9	99.1	94.7
52.5°	91.3	90.3	91.3	85.5	79.6	77.7
53°	72.8	71.9	72.8	68.0	64.1	60.7
53.5°	55.8	55.4	55.8	52.4	48.6	43.7
54°	42.2	45.6	42.2	37.9	33.5	31.6
54.5°	30.1	35.9	30.1	27.2	22.3	19.9
55°	20.9	26.2	20.9	18.5	14.1	12.1
55.5°	13.1	17.0	13.1	10.7	8.7	8.7
56°	8.3	8.7	8.3	6.8	5.8	6.3
56.5°	6.3	4.9	6.3	4.9	3.9	4.4
57°	4.4	2.9	4.4	3.4	3.4	2.4
57.5°	3.4	2.4	3.4	2.4	2.4	2.4
58°	2.4	2.4	2.4	2.4	2.4	2.4
58.5°	1.9	1.9	1.9	1.9	1.9	1.9
59°	1.9	1.9	1.9	1.9	1.9	1.9
59.5°	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9
60.5°	1.5	1.5	1.5	1.5	1.5	1.5
61°	1.5	1.5	1.5	1.5	1.5	1.5
61.5°	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5
63°	1.5	1.5	1.5	1.5	1.5	1.5
63.5°	1.0	1.0	1.0	1.0	1.0	1.0
64°	1.0	1.0	1.0	1.0	1.0	1.0
64.5°	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0
66°	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P776674

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	0.5	1.0	1.0	1.0	1.0
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	0.5
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	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	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: P776674

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-5000K

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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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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Scaled Data Report





21.5°	3508.7	3522.8	3543.6	3556.3	3560.2	3556.3	3543.6	3522.8	3508.7	3522.8	3543.6
22°	3400.9	3408.7	3429.5	3446.5	3458.2	3446.5	3429.5	3408.7	3400.9	3408.7	3429.5



44°	728.8	730.3	734.7	748.3	756.5	748.3	734.7	730.3	728.8	730.3	734.7
44.5°	674.0	675.4	679.8	695.3	703.1	695.3	679.8	675.4	674.0	675.4	679.8



66.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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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21.5°	3556.3	3560.2	3556.3	3543.6	3522.8	3508.7
22°	3446.5	3458.2	3446.5	3429.5	3408.7	3400.9



44°	748.3	756.5	748.3	734.7	730.3	728.8
44.5°	695.3	703.1	695.3	679.8	675.4	674.0

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Scaled Data Report



66.5°	1.0	1.0	1.0	1.0	1.0	1.0
67°	1.0	1.0	1.0	1.0	1.0	1.0

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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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Scaled Data Report



(END OF REPORT)