

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: P776591

Luminaire Tested: HCDJBS4050CSD-HCD42TRMW-5000lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776591
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: HCDJBS4050CSD-HCD42TRMW-5000lm-3000K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

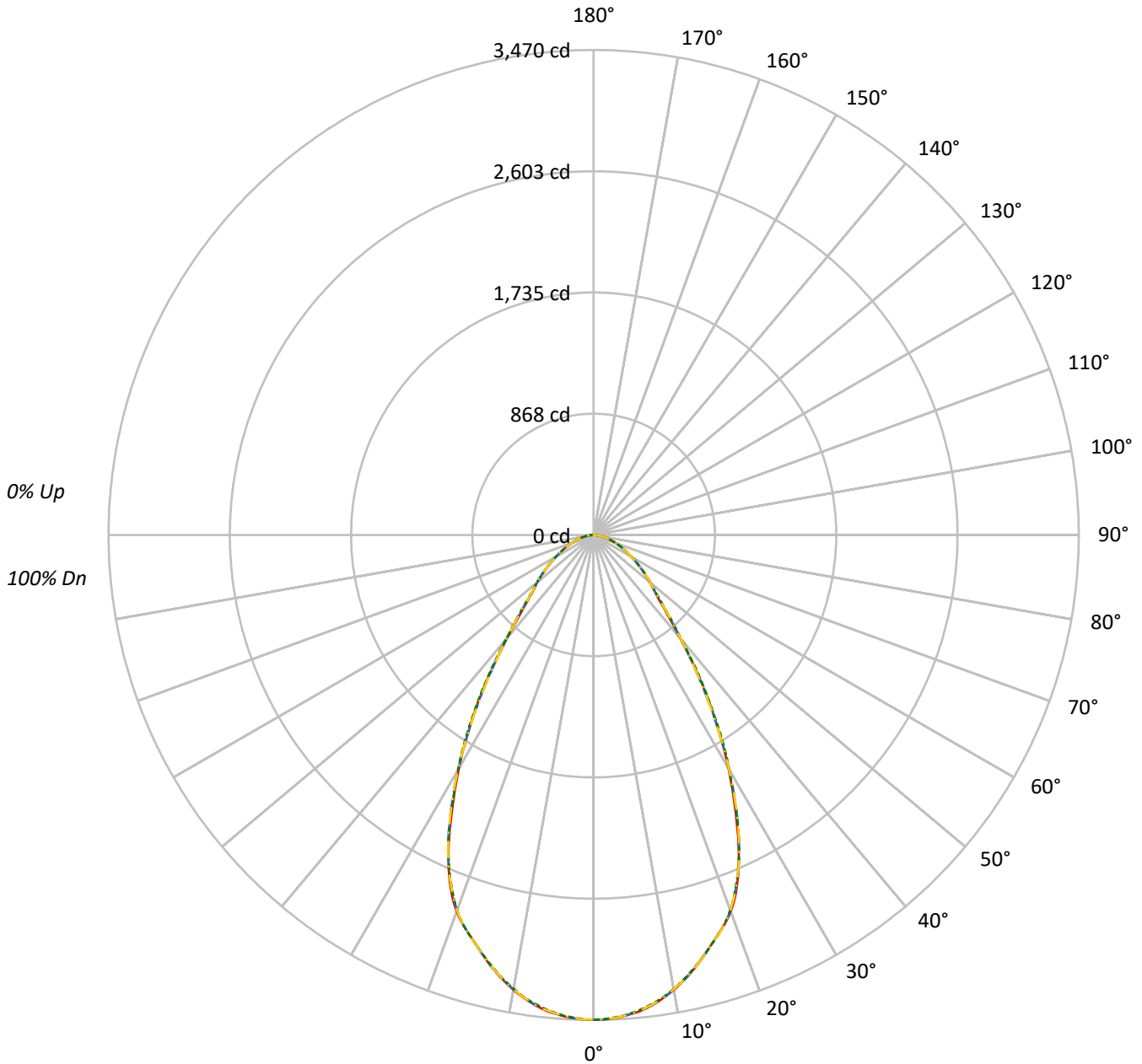
Lumens per Lamp: N/A
Luminaire Lumens: 4480.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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



TEST NUMBER: P776591
CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	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°	436686	436686	436686	436686
5°	433592	432657	433592	432657
10°	422401	421443	422401	421443
15°	403714	403232	403714	403232
20°	383860	382494	383860	382494
25°	340707	341804	340707	341804
30°	280305	281802	280305	281802
35°	217469	219820	217469	219820
40°	157960	160704	157960	160704
45°	119584	122574	119584	122574
50°	102984	103807	102984	103807
55°	89520	90530	89520	90530
60°	78253	78958	78253	78958
65°	68789	69325	68789	69325
70°	60713	61045	60713	61045
75°	53341	53341	53341	53341
80°	46166	45804	46166	45804
85°	36965	36965	36965	36965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 122574 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	7.2
10°-20°	870.4	19.4
20°-30°	1114.7	24.9
30°-40°	883.3	19.7
40°-50°	540.8	12.1
50°-60°	369.7	8.3
60°-70°	231.4	5.2
70°-80°	117.3	2.6
80°-90°	29.6	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°	2308.4	51.5
0°-40°	3191.6	71.2
0°-60°	4102.2	91.6
0°-90°	4480.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3470	3470	3470	3470	3470	
5°	3432	3425	3432	3425	3432	324
15°	3099	3095	3099	3095	3099	871
25°	2454	2462	2454	2462	2454	1112
35°	1416	1431	1416	1431	1416	882
45°	672	689	672	689	672	534
55°	408	413	408	413	408	368
65°	231	233	231	233	231	231
75°	110	110	110	110	110	117
85°	26	26	26	26	26	29
90°	0	1	0	1	0	



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
0.5°	3470.3	3469.9	3468.9	3468.5	3467.1	3468.5	3468.9	3469.9	3470.3	3469.9	3468.9
1°	3468.9	3468.5	3468.0	3467.6	3465.7	3467.6	3468.0	3468.5	3468.9	3468.5	3468.0
1.5°	3467.1	3466.2	3466.2	3465.2	3463.8	3465.2	3466.2	3466.2	3467.1	3466.2	3466.2
2°	3464.3	3463.8	3462.9	3462.4	3460.6	3462.4	3462.9	3463.8	3464.3	3463.8	3462.9
2.5°	3461.0	3460.1	3459.2	3458.7	3456.4	3458.7	3459.2	3460.1	3461.0	3460.1	3459.2
3°	3456.4	3455.5	3454.5	3453.6	3451.3	3453.6	3454.5	3455.5	3456.4	3455.5	3454.5
3.5°	3451.3	3450.4	3449.0	3448.0	3446.6	3448.0	3449.0	3450.4	3451.3	3450.4	3449.0
4°	3445.2	3444.8	3442.9	3442.0	3439.7	3442.0	3442.9	3444.8	3445.2	3444.8	3442.9
4.5°	3438.7	3437.8	3436.0	3435.0	3432.2	3435.0	3436.0	3437.8	3438.7	3437.8	3436.0
5°	3432.2	3430.8	3429.0	3428.1	3424.8	3428.1	3429.0	3430.8	3432.2	3430.8	3429.0
5.5°	3425.3	3422.0	3419.7	3418.8	3416.0	3418.8	3419.7	3422.0	3425.3	3422.0	3419.7
6°	3414.6	3412.7	3410.4	3409.0	3405.3	3409.0	3410.4	3412.7	3414.6	3412.7	3410.4
6.5°	3403.9	3402.5	3399.7	3398.3	3394.6	3398.3	3399.7	3402.5	3403.9	3402.5	3399.7
7°	3392.7	3390.9	3389.5	3387.2	3383.9	3387.2	3389.5	3390.9	3392.7	3390.9	3389.5
7.5°	3380.2	3378.3	3376.5	3375.5	3372.3	3375.5	3376.5	3378.3	3380.2	3378.3	3376.5
8°	3366.7	3365.3	3363.5	3362.1	3360.2	3362.1	3363.5	3365.3	3366.7	3365.3	3363.5
8.5°	3352.8	3350.9	3349.1	3347.7	3345.8	3347.7	3349.1	3350.9	3352.8	3350.9	3349.1
9°	3337.9	3336.5	3334.2	3332.8	3330.9	3332.8	3334.2	3336.5	3337.9	3336.5	3334.2
9.5°	3321.6	3320.7	3318.4	3317.0	3315.1	3317.0	3318.4	3320.7	3321.6	3320.7	3318.4
10°	3305.4	3304.0	3302.1	3300.3	3297.9	3300.3	3302.1	3304.0	3305.4	3304.0	3302.1
10.5°	3287.3	3286.3	3284.0	3282.6	3280.7	3282.6	3284.0	3286.3	3287.3	3286.3	3284.0
11°	3269.1	3268.2	3266.3	3264.5	3262.2	3264.5	3266.3	3268.2	3269.1	3268.2	3266.3
11.5°	3250.1	3249.1	3247.3	3245.4	3243.6	3245.4	3247.3	3249.1	3250.1	3249.1	3247.3
12°	3230.6	3229.6	3228.2	3225.9	3224.1	3225.9	3228.2	3229.6	3230.6	3229.6	3228.2
12.5°	3210.1	3209.2	3207.8	3205.5	3203.1	3205.5	3207.8	3209.2	3210.1	3209.2	3207.8
13°	3189.2	3188.3	3186.9	3185.0	3182.7	3185.0	3186.9	3188.3	3189.2	3188.3	3186.9
13.5°	3167.4	3166.4	3165.5	3163.6	3161.8	3163.6	3165.5	3166.4	3167.4	3166.4	3165.5
14°	3145.1	3144.6	3143.7	3141.8	3139.9	3141.8	3143.7	3144.6	3145.1	3144.6	3143.7
14.5°	3121.8	3121.4	3120.9	3119.0	3117.2	3119.0	3120.9	3121.4	3121.8	3121.4	3120.9
15°	3098.6	3098.6	3097.7	3096.7	3094.9	3096.7	3097.7	3098.6	3098.6	3098.6	3097.7
15.5°	3074.4	3074.4	3075.4	3074.4	3073.5	3074.4	3075.4	3074.4	3074.4	3074.4	3075.4
16°	3051.2	3051.7	3053.0	3052.6	3051.7	3052.6	3053.0	3051.7	3051.2	3051.7	3053.0
16.5°	3028.0	3028.9	3030.7	3030.7	3030.3	3030.7	3030.7	3028.9	3028.0	3028.9	3030.7
17°	3006.1	3007.0	3008.9	3008.4	3008.9	3008.4	3008.9	3007.0	3006.1	3007.0	3008.9
17.5°	2984.7	2985.7	2987.1	2986.6	2986.1	2986.6	2987.1	2985.7	2984.7	2985.7	2987.1
18°	2963.8	2964.3	2965.2	2964.3	2963.4	2964.3	2965.2	2964.3	2963.8	2964.3	2965.2
18.5°	2941.5	2941.5	2941.5	2940.6	2939.2	2940.6	2941.5	2941.5	2941.5	2941.5	2941.5
19°	2918.8	2917.4	2916.4	2915.0	2913.6	2915.0	2916.4	2917.4	2918.8	2917.4	2916.4
19.5°	2893.7	2891.8	2889.0	2888.1	2886.7	2888.1	2889.0	2891.8	2893.7	2891.8	2889.0
20°	2866.2	2863.9	2858.8	2859.3	2856.0	2859.3	2858.8	2863.9	2866.2	2863.9	2858.8
20.5°	2836.0	2832.3	2826.3	2828.1	2824.4	2828.1	2826.3	2832.3	2836.0	2832.3	2826.3
21°	2804.4	2798.9	2791.9	2794.2	2789.6	2794.2	2791.9	2798.9	2804.4	2798.9	2791.9



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CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2688.7	2683.1	2678.5	2678.0	2675.7	2678.0	2678.5	2683.1	2688.7	2683.1	2678.5
23°	2644.6	2639.9	2639.0	2635.8	2634.8	2635.8	2639.0	2639.9	2644.6	2639.9	2639.0
23.5°	2599.5	2595.3	2597.6	2592.1	2594.4	2592.1	2597.6	2595.3	2599.5	2595.3	2597.6
24°	2552.6	2549.3	2554.9	2547.5	2551.6	2547.5	2554.9	2549.3	2552.6	2549.3	2554.9
24.5°	2504.2	2502.8	2509.8	2502.4	2508.0	2502.4	2509.8	2502.8	2504.2	2502.8	2509.8
25°	2453.6	2454.5	2462.9	2457.3	2461.5	2457.3	2462.9	2454.5	2453.6	2454.5	2462.9
25.5°	2401.1	2407.1	2414.6	2412.2	2413.2	2412.2	2414.6	2407.1	2401.1	2407.1	2414.6
26°	2347.2	2357.9	2364.8	2365.3	2361.6	2365.3	2364.8	2357.9	2347.2	2357.9	2364.8
26.5°	2291.9	2307.7	2313.3	2316.5	2308.1	2316.5	2313.3	2307.7	2291.9	2307.7	2313.3
27°	2238.0	2255.6	2261.2	2266.3	2253.8	2266.3	2261.2	2255.6	2238.0	2255.6	2261.2
27.5°	2185.0	2201.7	2208.2	2214.7	2198.5	2214.7	2208.2	2201.7	2185.0	2201.7	2208.2
28°	2132.0	2147.8	2154.3	2160.8	2143.2	2160.8	2154.3	2147.8	2132.0	2147.8	2154.3
28.5°	2080.4	2093.0	2100.4	2106.0	2089.7	2106.0	2100.4	2093.0	2080.4	2093.0	2100.4
29°	2029.3	2037.7	2046.5	2050.2	2039.1	2050.2	2046.5	2037.7	2029.3	2037.7	2046.5
29.5°	1979.1	1983.3	1993.1	1994.5	1989.4	1994.5	1993.1	1983.3	1979.1	1983.3	1993.1
30°	1928.9	1927.6	1938.2	1938.7	1939.2	1938.7	1938.2	1927.6	1928.9	1927.6	1938.2
30.5°	1876.9	1873.7	1883.9	1884.8	1891.8	1884.8	1883.9	1873.7	1876.9	1873.7	1883.9
31°	1825.3	1818.4	1829.0	1830.9	1841.6	1830.9	1829.0	1818.4	1825.3	1818.4	1829.0
31.5°	1772.3	1765.4	1774.2	1777.5	1790.9	1777.5	1774.2	1765.4	1772.3	1765.4	1774.2
32°	1718.4	1711.9	1719.8	1724.9	1738.9	1724.9	1719.8	1711.9	1718.4	1711.9	1719.8
32.5°	1666.4	1660.8	1666.4	1672.9	1686.8	1672.9	1666.4	1660.8	1666.4	1660.8	1666.4
33°	1613.9	1609.7	1611.6	1620.9	1633.9	1620.9	1611.6	1609.7	1613.9	1609.7	1611.6
33.5°	1567.0	1558.6	1557.2	1568.8	1580.4	1568.8	1557.2	1558.6	1567.0	1558.6	1557.2
34°	1516.3	1507.5	1503.3	1517.7	1529.8	1517.7	1503.3	1507.5	1516.3	1507.5	1503.3
34.5°	1466.1	1456.8	1450.8	1466.1	1479.6	1466.1	1450.8	1456.8	1466.1	1456.8	1450.8
35°	1415.5	1407.6	1401.1	1416.4	1430.8	1416.4	1401.1	1407.6	1415.5	1407.6	1401.1
35.5°	1366.2	1358.8	1351.8	1367.1	1382.9	1367.1	1351.8	1358.8	1366.2	1358.8	1351.8
36°	1317.9	1310.0	1303.9	1319.7	1336.0	1319.7	1303.9	1310.0	1317.9	1310.0	1303.9
36.5°	1270.0	1263.0	1257.5	1272.8	1288.1	1272.8	1257.5	1263.0	1270.0	1263.0	1257.5
37°	1221.7	1216.6	1211.9	1227.3	1240.7	1227.3	1211.9	1216.6	1221.7	1216.6	1211.9
37.5°	1174.7	1171.5	1168.2	1183.6	1193.3	1183.6	1168.2	1171.5	1174.7	1171.5	1168.2
38°	1128.3	1127.8	1126.4	1140.8	1146.4	1140.8	1126.4	1127.8	1128.3	1127.8	1126.4
38.5°	1084.6	1085.5	1086.5	1099.0	1101.3	1099.0	1086.5	1085.5	1084.6	1085.5	1086.5
39°	1042.3	1044.6	1046.5	1058.6	1058.1	1058.6	1046.5	1044.6	1042.3	1044.6	1046.5
39.5°	1001.0	1005.1	1008.4	1018.6	1017.2	1018.6	1008.4	1005.1	1001.0	1005.1	1008.4
40°	961.5	966.1	971.7	980.0	978.2	980.0	971.7	966.1	961.5	966.1	971.7
40.5°	924.3	928.9	936.4	942.4	941.9	942.4	936.4	928.9	924.3	928.9	936.4
41°	888.5	893.1	902.9	907.1	908.5	907.1	902.9	893.1	888.5	893.1	902.9
41.5°	854.6	859.7	870.8	873.2	877.3	873.2	870.8	859.7	854.6	859.7	870.8
42°	823.0	828.1	840.2	841.6	847.1	841.6	840.2	828.1	823.0	828.1	840.2
42.5°	793.2	798.3	811.4	811.8	817.9	811.8	811.4	798.3	793.2	798.3	811.4
43°	764.9	770.5	783.0	783.9	789.5	783.9	783.0	770.5	764.9	770.5	783.0
43.5°	738.9	744.4	756.5	757.0	762.1	757.0	756.5	744.4	738.9	744.4	756.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	671.9	676.6	684.0	686.4	688.7	686.4	684.0	676.6	671.9	676.6	684.0
45.5°	652.4	656.1	663.1	665.4	667.3	665.4	663.1	656.1	652.4	656.1	663.1
46°	633.8	637.1	643.1	646.4	647.3	646.4	643.1	637.1	633.8	637.1	643.1
46.5°	616.7	619.4	624.1	627.8	628.7	627.8	624.1	619.4	616.7	619.4	624.1
47°	600.4	602.2	606.9	610.6	612.0	610.6	606.9	602.2	600.4	602.2	606.9
47.5°	585.1	586.4	590.6	594.8	596.7	594.8	590.6	586.4	585.1	586.4	590.6
48°	570.6	572.5	576.7	580.4	582.3	580.4	576.7	572.5	570.6	572.5	576.7
48.5°	559.0	560.0	563.2	566.9	568.3	566.9	563.2	560.0	559.0	560.0	563.2
49°	547.9	548.3	551.1	553.9	555.3	553.9	551.1	548.3	547.9	548.3	551.1
49.5°	537.2	537.7	539.5	541.8	542.3	541.8	539.5	537.7	537.2	537.7	539.5
50°	526.0	526.5	527.9	529.8	530.2	529.8	527.9	526.5	526.0	526.5	527.9
50.5°	514.9	515.3	516.3	518.1	518.1	518.1	516.3	515.3	514.9	515.3	516.3
51°	502.3	503.3	504.7	506.5	506.5	506.5	504.7	503.3	502.3	503.3	504.7
51.5°	490.3	490.7	492.6	494.9	495.4	494.9	492.6	490.7	490.3	490.7	492.6
52°	477.7	478.6	480.5	482.8	483.3	482.8	480.5	478.6	477.7	478.6	480.5
52.5°	465.2	466.1	468.4	470.3	471.2	470.3	468.4	466.1	465.2	466.1	468.4
53°	453.5	454.5	456.3	458.2	459.1	458.2	456.3	454.5	453.5	454.5	456.3
53.5°	441.5	442.4	444.2	446.6	447.5	446.6	444.2	442.4	441.5	442.4	444.2
54°	430.3	430.8	432.6	434.5	435.4	434.5	432.6	430.8	430.3	430.8	432.6
54.5°	419.2	419.6	421.5	423.3	424.3	423.3	421.5	419.6	419.2	419.6	421.5
55°	408.0	408.9	410.8	412.2	412.6	412.2	410.8	408.9	408.0	408.9	410.8
55.5°	397.3	398.2	400.1	401.5	402.0	401.5	400.1	398.2	397.3	398.2	400.1
56°	387.1	388.0	389.4	390.8	391.3	390.8	389.4	388.0	387.1	388.0	389.4
56.5°	376.9	377.8	379.2	380.6	381.1	380.6	379.2	377.8	376.9	377.8	379.2
57°	366.6	367.6	369.0	370.4	370.8	370.4	369.0	367.6	366.6	367.6	369.0
57.5°	356.4	357.8	359.2	360.1	361.1	360.1	359.2	357.8	356.4	357.8	359.2
58°	347.6	348.1	349.5	350.8	351.3	350.8	349.5	348.1	347.6	348.1	349.5
58.5°	338.3	338.8	340.2	341.1	341.6	341.1	340.2	338.8	338.3	338.8	340.2
59°	329.0	329.5	330.4	331.3	332.3	331.3	330.4	329.5	329.0	329.5	330.4
59.5°	319.7	320.2	321.1	322.5	323.0	322.5	321.1	320.2	319.7	320.2	321.1
60°	310.9	311.3	312.3	313.2	313.7	313.2	312.3	311.3	310.9	311.3	312.3
60.5°	302.1	302.5	303.4	304.4	304.8	304.4	303.4	302.5	302.1	302.5	303.4
61°	293.7	294.2	295.1	296.0	296.5	296.0	295.1	294.2	293.7	294.2	295.1
61.5°	285.3	285.8	286.7	287.6	288.1	287.6	286.7	285.8	285.3	285.8	286.7
62°	277.4	277.4	278.4	279.3	279.3	279.3	278.4	277.4	277.4	277.4	278.4
62.5°	269.1	269.5	270.0	270.9	271.4	270.9	270.0	269.5	269.1	269.5	270.0
63°	261.2	261.6	262.1	263.0	263.0	263.0	262.1	261.6	261.2	261.6	262.1
63.5°	253.3	253.7	254.2	255.1	255.6	255.1	254.2	253.7	253.3	253.7	254.2
64°	245.8	246.3	246.8	247.2	247.7	247.2	246.8	246.3	245.8	246.3	246.8
64.5°	238.4	238.9	239.3	239.8	240.2	239.8	239.3	238.9	238.4	238.9	239.3
65°	231.0	231.4	231.9	232.3	232.8	232.3	231.9	231.4	231.0	231.4	231.9
65.5°	224.0	224.0	224.4	225.4	225.4	225.4	224.4	224.0	224.0	224.0	224.4
66°	216.5	217.0	217.5	217.9	218.4	217.9	217.5	217.0	216.5	217.0	217.5



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	196.1	196.6	197.0	197.5	197.5	197.5	197.0	196.6	196.1	196.6	197.0
68°	189.6	190.1	190.5	191.0	191.0	191.0	190.5	190.1	189.6	190.1	190.5
68.5°	183.1	183.6	184.0	184.0	184.5	184.0	184.0	183.6	183.1	183.6	184.0
69°	177.0	177.0	177.0	178.0	178.0	178.0	177.0	177.0	177.0	177.0	177.0
69.5°	170.5	171.0	171.0	171.5	171.9	171.5	171.0	171.0	170.5	171.0	171.0
70°	165.0	165.4	165.0	165.4	165.9	165.4	165.0	165.4	165.0	165.4	165.0
70.5°	158.9	159.4	159.4	159.4	159.9	159.4	159.4	159.4	158.9	159.4	159.4
71°	153.3	153.3	153.3	153.3	153.8	153.3	153.3	153.3	153.3	153.3	153.3
71.5°	147.3	147.3	147.8	147.8	147.8	147.8	147.8	147.3	147.3	147.3	147.8
72°	141.7	141.7	141.7	142.2	142.2	142.2	141.7	141.7	141.7	141.7	141.7
72.5°	136.2	136.2	136.2	136.6	136.6	136.6	136.2	136.2	136.2	136.2	136.2
73°	130.6	130.6	130.6	131.0	131.0	131.0	130.6	130.6	130.6	130.6	130.6
73.5°	125.0	125.0	125.5	125.5	125.5	125.5	125.5	125.0	125.0	125.0	125.5
74°	119.9	119.9	119.9	120.4	120.4	120.4	119.9	119.9	119.9	119.9	119.9
74.5°	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8
75°	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
75.5°	104.6	104.6	104.6	104.6	105.0	104.6	104.6	104.6	104.6	104.6	104.6
76°	99.9	99.4	99.4	99.9	99.9	99.9	99.4	99.4	99.9	99.4	99.4
76.5°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
77°	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
77.5°	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
78°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
78.5°	76.7	76.7	76.2	76.2	76.7	76.2	76.2	76.7	76.7	76.7	76.2
79°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
79.5°	67.8	67.8	67.4	67.8	67.8	67.8	67.4	67.8	67.8	67.8	67.4
80°	63.7	63.7	63.2	63.2	63.2	63.2	63.2	63.7	63.7	63.7	63.2
80.5°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
81°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
81.5°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
82°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
82.5°	43.7	43.7	43.7	43.7	43.2	43.7	43.7	43.7	43.7	43.7	43.7
83°	40.0	40.0	40.0	39.5	39.5	39.5	40.0	40.0	40.0	40.0	40.0
83.5°	36.2	36.2	36.2	35.8	35.8	35.8	36.2	36.2	36.2	36.2	36.2
84°	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
84.5°	29.3	28.8	28.8	28.8	28.8	28.8	28.8	28.8	29.3	28.8	28.8
85°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
85.5°	22.3	21.8	22.3	21.8	22.3	21.8	22.3	21.8	22.3	21.8	22.3
86°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
86.5°	15.8	15.3	15.3	15.3	15.8	15.3	15.3	15.3	15.8	15.3	15.3
87°	12.5	12.5	12.5	12.1	12.5	12.1	12.5	12.5	12.5	12.5	12.5
87.5°	9.3	9.3	9.3	9.3	9.8	9.3	9.3	9.3	9.3	9.3	9.3
88°	6.0	6.5	6.5	7.0	7.0	7.0	6.5	6.5	6.0	6.5	6.5
88.5°	3.7	3.7	4.2	4.6	5.6	4.6	4.2	3.7	3.7	3.7	4.2



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-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	0.5	0.9	1.4	0.9	0.5	0.0	0.0	0.0	0.5



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
0.5°	3468.5	3467.1	3468.5	3468.9	3469.9	3470.3
1°	3467.6	3465.7	3467.6	3468.0	3468.5	3468.9
1.5°	3465.2	3463.8	3465.2	3466.2	3466.2	3467.1
2°	3462.4	3460.6	3462.4	3462.9	3463.8	3464.3
2.5°	3458.7	3456.4	3458.7	3459.2	3460.1	3461.0
3°	3453.6	3451.3	3453.6	3454.5	3455.5	3456.4
3.5°	3448.0	3446.6	3448.0	3449.0	3450.4	3451.3
4°	3442.0	3439.7	3442.0	3442.9	3444.8	3445.2
4.5°	3435.0	3432.2	3435.0	3436.0	3437.8	3438.7
5°	3428.1	3424.8	3428.1	3429.0	3430.8	3432.2
5.5°	3418.8	3416.0	3418.8	3419.7	3422.0	3425.3
6°	3409.0	3405.3	3409.0	3410.4	3412.7	3414.6
6.5°	3398.3	3394.6	3398.3	3399.7	3402.5	3403.9
7°	3387.2	3383.9	3387.2	3389.5	3390.9	3392.7
7.5°	3375.5	3372.3	3375.5	3376.5	3378.3	3380.2
8°	3362.1	3360.2	3362.1	3363.5	3365.3	3366.7
8.5°	3347.7	3345.8	3347.7	3349.1	3350.9	3352.8
9°	3332.8	3330.9	3332.8	3334.2	3336.5	3337.9
9.5°	3317.0	3315.1	3317.0	3318.4	3320.7	3321.6
10°	3300.3	3297.9	3300.3	3302.1	3304.0	3305.4
10.5°	3282.6	3280.7	3282.6	3284.0	3286.3	3287.3
11°	3264.5	3262.2	3264.5	3266.3	3268.2	3269.1
11.5°	3245.4	3243.6	3245.4	3247.3	3249.1	3250.1
12°	3225.9	3224.1	3225.9	3228.2	3229.6	3230.6
12.5°	3205.5	3203.1	3205.5	3207.8	3209.2	3210.1
13°	3185.0	3182.7	3185.0	3186.9	3188.3	3189.2
13.5°	3163.6	3161.8	3163.6	3165.5	3166.4	3167.4
14°	3141.8	3139.9	3141.8	3143.7	3144.6	3145.1
14.5°	3119.0	3117.2	3119.0	3120.9	3121.4	3121.8
15°	3096.7	3094.9	3096.7	3097.7	3098.6	3098.6
15.5°	3074.4	3073.5	3074.4	3075.4	3074.4	3074.4
16°	3052.6	3051.7	3052.6	3053.0	3051.7	3051.2
16.5°	3030.7	3030.3	3030.7	3030.7	3028.9	3028.0
17°	3008.4	3008.9	3008.4	3008.9	3007.0	3006.1
17.5°	2986.6	2986.1	2986.6	2987.1	2985.7	2984.7
18°	2964.3	2963.4	2964.3	2965.2	2964.3	2963.8
18.5°	2940.6	2939.2	2940.6	2941.5	2941.5	2941.5
19°	2915.0	2913.6	2915.0	2916.4	2917.4	2918.8
19.5°	2888.1	2886.7	2888.1	2889.0	2891.8	2893.7
20°	2859.3	2856.0	2859.3	2858.8	2863.9	2866.2
20.5°	2828.1	2824.4	2828.1	2826.3	2832.3	2836.0
21°	2794.2	2789.6	2794.2	2791.9	2798.9	2804.4



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2678.0	2675.7	2678.0	2678.5	2683.1	2688.7
23°	2635.8	2634.8	2635.8	2639.0	2639.9	2644.6
23.5°	2592.1	2594.4	2592.1	2597.6	2595.3	2599.5
24°	2547.5	2551.6	2547.5	2554.9	2549.3	2552.6
24.5°	2502.4	2508.0	2502.4	2509.8	2502.8	2504.2
25°	2457.3	2461.5	2457.3	2462.9	2454.5	2453.6
25.5°	2412.2	2413.2	2412.2	2414.6	2407.1	2401.1
26°	2365.3	2361.6	2365.3	2364.8	2357.9	2347.2
26.5°	2316.5	2308.1	2316.5	2313.3	2307.7	2291.9
27°	2266.3	2253.8	2266.3	2261.2	2255.6	2238.0
27.5°	2214.7	2198.5	2214.7	2208.2	2201.7	2185.0
28°	2160.8	2143.2	2160.8	2154.3	2147.8	2132.0
28.5°	2106.0	2089.7	2106.0	2100.4	2093.0	2080.4
29°	2050.2	2039.1	2050.2	2046.5	2037.7	2029.3
29.5°	1994.5	1989.4	1994.5	1993.1	1983.3	1979.1
30°	1938.7	1939.2	1938.7	1938.2	1927.6	1928.9
30.5°	1884.8	1891.8	1884.8	1883.9	1873.7	1876.9
31°	1830.9	1841.6	1830.9	1829.0	1818.4	1825.3
31.5°	1777.5	1790.9	1777.5	1774.2	1765.4	1772.3
32°	1724.9	1738.9	1724.9	1719.8	1711.9	1718.4
32.5°	1672.9	1686.8	1672.9	1666.4	1660.8	1666.4
33°	1620.9	1633.9	1620.9	1611.6	1609.7	1613.9
33.5°	1568.8	1580.4	1568.8	1557.2	1558.6	1567.0
34°	1517.7	1529.8	1517.7	1503.3	1507.5	1516.3
34.5°	1466.1	1479.6	1466.1	1450.8	1456.8	1466.1
35°	1416.4	1430.8	1416.4	1401.1	1407.6	1415.5
35.5°	1367.1	1382.9	1367.1	1351.8	1358.8	1366.2
36°	1319.7	1336.0	1319.7	1303.9	1310.0	1317.9
36.5°	1272.8	1288.1	1272.8	1257.5	1263.0	1270.0
37°	1227.3	1240.7	1227.3	1211.9	1216.6	1221.7
37.5°	1183.6	1193.3	1183.6	1168.2	1171.5	1174.7
38°	1140.8	1146.4	1140.8	1126.4	1127.8	1128.3
38.5°	1099.0	1101.3	1099.0	1086.5	1085.5	1084.6
39°	1058.6	1058.1	1058.6	1046.5	1044.6	1042.3
39.5°	1018.6	1017.2	1018.6	1008.4	1005.1	1001.0
40°	980.0	978.2	980.0	971.7	966.1	961.5
40.5°	942.4	941.9	942.4	936.4	928.9	924.3
41°	907.1	908.5	907.1	902.9	893.1	888.5
41.5°	873.2	877.3	873.2	870.8	859.7	854.6
42°	841.6	847.1	841.6	840.2	828.1	823.0
42.5°	811.8	817.9	811.8	811.4	798.3	793.2
43°	783.9	789.5	783.9	783.0	770.5	764.9
43.5°	757.0	762.1	757.0	756.5	744.4	738.9



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	686.4	688.7	686.4	684.0	676.6	671.9
45.5°	665.4	667.3	665.4	663.1	656.1	652.4
46°	646.4	647.3	646.4	643.1	637.1	633.8
46.5°	627.8	628.7	627.8	624.1	619.4	616.7
47°	610.6	612.0	610.6	606.9	602.2	600.4
47.5°	594.8	596.7	594.8	590.6	586.4	585.1
48°	580.4	582.3	580.4	576.7	572.5	570.6
48.5°	566.9	568.3	566.9	563.2	560.0	559.0
49°	553.9	555.3	553.9	551.1	548.3	547.9
49.5°	541.8	542.3	541.8	539.5	537.7	537.2
50°	529.8	530.2	529.8	527.9	526.5	526.0
50.5°	518.1	518.1	518.1	516.3	515.3	514.9
51°	506.5	506.5	506.5	504.7	503.3	502.3
51.5°	494.9	495.4	494.9	492.6	490.7	490.3
52°	482.8	483.3	482.8	480.5	478.6	477.7
52.5°	470.3	471.2	470.3	468.4	466.1	465.2
53°	458.2	459.1	458.2	456.3	454.5	453.5
53.5°	446.6	447.5	446.6	444.2	442.4	441.5
54°	434.5	435.4	434.5	432.6	430.8	430.3
54.5°	423.3	424.3	423.3	421.5	419.6	419.2
55°	412.2	412.6	412.2	410.8	408.9	408.0
55.5°	401.5	402.0	401.5	400.1	398.2	397.3
56°	390.8	391.3	390.8	389.4	388.0	387.1
56.5°	380.6	381.1	380.6	379.2	377.8	376.9
57°	370.4	370.8	370.4	369.0	367.6	366.6
57.5°	360.1	361.1	360.1	359.2	357.8	356.4
58°	350.8	351.3	350.8	349.5	348.1	347.6
58.5°	341.1	341.6	341.1	340.2	338.8	338.3
59°	331.3	332.3	331.3	330.4	329.5	329.0
59.5°	322.5	323.0	322.5	321.1	320.2	319.7
60°	313.2	313.7	313.2	312.3	311.3	310.9
60.5°	304.4	304.8	304.4	303.4	302.5	302.1
61°	296.0	296.5	296.0	295.1	294.2	293.7
61.5°	287.6	288.1	287.6	286.7	285.8	285.3
62°	279.3	279.3	279.3	278.4	277.4	277.4
62.5°	270.9	271.4	270.9	270.0	269.5	269.1
63°	263.0	263.0	263.0	262.1	261.6	261.2
63.5°	255.1	255.6	255.1	254.2	253.7	253.3
64°	247.2	247.7	247.2	246.8	246.3	245.8
64.5°	239.8	240.2	239.8	239.3	238.9	238.4
65°	232.3	232.8	232.3	231.9	231.4	231.0
65.5°	225.4	225.4	225.4	224.4	224.0	224.0
66°	217.9	218.4	217.9	217.5	217.0	216.5



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	197.5	197.5	197.5	197.0	196.6	196.1
68°	191.0	191.0	191.0	190.5	190.1	189.6
68.5°	184.0	184.5	184.0	184.0	183.6	183.1
69°	178.0	178.0	178.0	177.0	177.0	177.0
69.5°	171.5	171.9	171.5	171.0	171.0	170.5
70°	165.4	165.9	165.4	165.0	165.4	165.0
70.5°	159.4	159.9	159.4	159.4	159.4	158.9
71°	153.3	153.8	153.3	153.3	153.3	153.3
71.5°	147.8	147.8	147.8	147.8	147.3	147.3
72°	142.2	142.2	142.2	141.7	141.7	141.7
72.5°	136.6	136.6	136.6	136.2	136.2	136.2
73°	131.0	131.0	131.0	130.6	130.6	130.6
73.5°	125.5	125.5	125.5	125.5	125.0	125.0
74°	120.4	120.4	120.4	119.9	119.9	119.9
74.5°	114.8	114.8	114.8	114.8	114.8	114.8
75°	109.7	109.7	109.7	109.7	109.7	109.7
75.5°	104.6	105.0	104.6	104.6	104.6	104.6
76°	99.9	99.9	99.9	99.4	99.4	99.9
76.5°	94.8	94.8	94.8	94.8	94.8	94.8
77°	90.2	90.2	90.2	90.2	90.2	90.2
77.5°	85.5	85.5	85.5	85.5	85.5	85.5
78°	80.9	80.9	80.9	80.9	80.9	80.9
78.5°	76.2	76.7	76.2	76.2	76.7	76.7
79°	72.0	72.0	72.0	72.0	72.0	72.0
79.5°	67.8	67.8	67.8	67.4	67.8	67.8
80°	63.2	63.2	63.2	63.2	63.7	63.7
80.5°	59.5	59.5	59.5	59.5	59.5	59.5
81°	55.3	55.3	55.3	55.3	55.3	55.3
81.5°	51.1	51.1	51.1	51.1	51.1	51.1
82°	47.4	47.4	47.4	47.4	47.4	47.4
82.5°	43.7	43.2	43.7	43.7	43.7	43.7
83°	39.5	39.5	39.5	40.0	40.0	40.0
83.5°	35.8	35.8	35.8	36.2	36.2	36.2
84°	32.5	32.5	32.5	32.5	32.5	32.5
84.5°	28.8	28.8	28.8	28.8	28.8	29.3
85°	25.6	25.6	25.6	25.6	25.6	25.6
85.5°	21.8	22.3	21.8	22.3	21.8	22.3
86°	18.6	18.6	18.6	18.6	18.6	18.6
86.5°	15.3	15.8	15.3	15.3	15.3	15.8
87°	12.1	12.5	12.1	12.5	12.5	12.5
87.5°	9.3	9.8	9.3	9.3	9.3	9.3
88°	7.0	7.0	7.0	6.5	6.5	6.0
88.5°	4.6	5.6	4.6	4.2	3.7	3.7



TEST NUMBER: P776591

CATALOG NUMBER: HCDJBL54050CSD-HCD42TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.9	1.4	0.9	0.5	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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Peachtree City, GA 30269

Scaled Data Report





21.5°	2767.7	2763.1	2755.2	2757.5	2752.9	2757.5	2755.2	2763.1	2767.7	2763.1	2755.2
22°	2729.2	2724.5	2717.5	2718.5	2713.8	2718.5	2717.5	2724.5	2729.2	2724.5	2717.5



44°	714.7	720.3	731.0	731.9	736.5	731.9	731.0	720.3	714.7	720.3	731.0
44.5°	692.4	698.0	707.3	708.7	711.9	708.7	707.3	698.0	692.4	698.0	707.3



66.5°	209.6	210.0	210.5	211.0	211.4	211.0	210.5	210.0	209.6	210.0	210.5
67°	203.1	203.1	203.5	204.0	204.5	204.0	203.5	203.1	203.1	203.1	203.5



89°	1.4	1.9	2.8	3.3	3.7	3.3	2.8	1.9	1.4	1.9	2.8
89.5°	0.0	0.5	1.4	1.9	2.3	1.9	1.4	0.5	0.0	0.5	1.4

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21.5°	2757.5	2752.9	2757.5	2755.2	2763.1	2767.7
22°	2718.5	2713.8	2718.5	2717.5	2724.5	2729.2



44°	731.9	736.5	731.9	731.0	720.3	714.7
44.5°	708.7	711.9	708.7	707.3	698.0	692.4

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66.5°	211.0	211.4	211.0	210.5	210.0	209.6
67°	204.0	204.5	204.0	203.5	203.1	203.1

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Scaled Data Report



89°	3.3	3.7	3.3	2.8	1.9	1.4
89.5°	1.9	2.3	1.9	1.4	0.5	0.0

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Scaled Data Report



(END OF REPORT)