

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: P776716

Luminaire Tested: HCDJBS4050CSD-HCD6TRMW-5000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD6TRMW-5000lm-3000K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

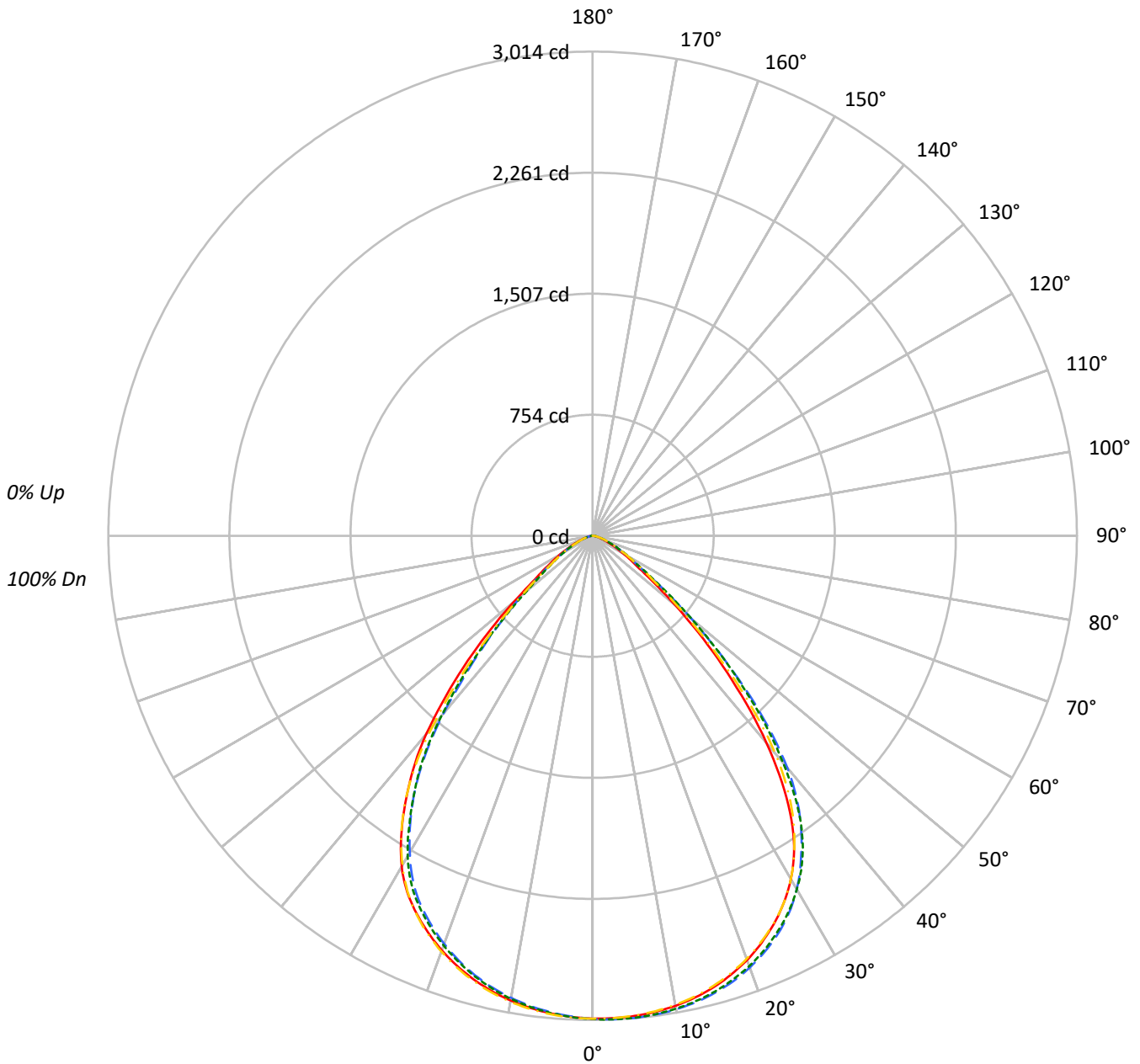
Lumens per Lamp: N/A
Luminaire Lumens: 5023.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90								
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81								
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72								
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65								
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59								
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53								
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48								
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44								
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40								
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	164828	164828	164828	164828
5°	165127	165716	164230	164131
10°	165383	166391	163546	162923
15°	165109	166715	162282	161074
20°	163943	166247	160145	158301
25°	161326	164586	156886	154243
30°	156271	160917	150416	145738
35°	144313	152217	135981	129108
40°	120605	131911	115252	104775
45°	88800	101693	85125	74240
50°	56987	68552	54762	45807
55°	34063	41346	35793	31043
60°	23989	28123	25930	22564
65°	16396	19950	18264	16150
70°	11252	14442	12743	11685
75°	7773	10718	9044	8472
80°	5272	8208	6440	6030
85°	2327	6416	3774	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 104755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	5.7
10°-20°	813.7	16.2
20°-30°	1208.2	24.0
30°-40°	1296.4	25.8
40°-50°	868.8	17.3
50°-60°	353.6	7.0
60°-70°	141.3	2.8
70°-80°	48.3	1.0
80°-90°	8.8	0.2
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°	2306.5	45.9
0°-40°	3602.9	71.7
0°-60°	4825.4	96.1
0°-90°	5023.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5023.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3007	3007	3007	3007	3007	
5°	3001	3011	2984	2983	3001	286
15°	2909	2938	2859	2838	2909	820
25°	2667	2721	2594	2550	2667	1225
35°	2156	2274	2032	1929	2156	1327
45°	1145	1312	1098	958	1145	884
55°	356	433	374	325	356	344
65°	126	154	141	124	126	130
75°	37	51	43	40	37	41
85°	4	10	6	6	4	6
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°	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
0.5°	3005.3	3006.7	3008.6	3010.0	3010.5	3010.0	3006.3	3003.5	3004.0	3004.0	3005.3
1°	3006.3	3008.1	3010.0	3011.4	3011.9	3010.9	3006.3	3003.0	3002.6	3002.1	3003.0
1.5°	3006.3	3009.1	3011.4	3012.8	3012.3	3010.9	3006.3	3002.1	3001.6	2999.8	3000.7
2°	3005.8	3009.5	3012.3	3013.7	3012.8	3011.4	3005.8	3001.2	2999.8	2997.4	2997.9
2.5°	3005.3	3010.0	3012.8	3014.2	3013.2	3011.4	3005.3	2999.8	2997.9	2995.1	2995.1
3°	3004.9	3010.0	3013.2	3014.6	3013.2	3010.9	3004.4	2998.4	2996.1	2992.3	2992.3
3.5°	3004.4	3010.0	3013.7	3014.6	3013.2	3010.5	3003.0	2996.5	2993.3	2989.1	2988.6
4°	3003.5	3010.0	3013.2	3014.6	3012.8	3009.5	3001.6	2994.2	2990.5	2985.8	2985.4
4.5°	3002.1	3009.1	3013.2	3014.6	3012.3	3008.6	3000.2	2992.3	2987.7	2982.1	2981.6
5°	3000.7	3008.6	3012.8	3013.7	3011.4	3007.2	2997.9	2989.5	2984.4	2978.4	2977.5
5.5°	2999.3	3007.2	3011.9	3013.2	3010.5	3005.3	2996.1	2986.8	2981.2	2974.2	2972.8
6°	2997.0	3006.3	3010.9	3012.3	3009.1	3003.5	2993.7	2983.5	2977.5	2970.0	2968.6
6.5°	2994.7	3004.4	3009.5	3010.9	3007.2	3001.6	2990.9	2980.3	2973.7	2965.4	2963.5
7°	2992.3	3003.0	3008.1	3009.5	3005.8	2999.3	2987.7	2976.5	2969.6	2960.3	2958.4
7.5°	2989.5	3000.7	3006.3	3007.7	3003.5	2996.5	2984.9	2972.8	2964.9	2955.2	2952.8
8°	2986.3	2998.4	3004.4	3005.8	3001.2	2993.7	2981.2	2968.6	2960.3	2949.6	2947.3
8.5°	2983.0	2996.1	3002.1	3003.5	2998.8	2990.9	2977.5	2964.0	2954.7	2944.0	2941.2
9°	2978.9	2993.3	2999.8	3001.2	2995.6	2987.2	2973.7	2959.3	2949.6	2938.0	2934.3
9.5°	2975.1	2990.0	2996.5	2998.4	2992.3	2984.0	2969.1	2954.2	2944.0	2931.5	2927.7
10°	2971.0	2986.8	2993.7	2995.1	2989.1	2980.3	2964.5	2949.1	2938.0	2924.5	2921.2
10.5°	2966.3	2982.6	2990.0	2991.9	2984.9	2975.6	2959.8	2943.1	2931.9	2917.5	2913.8
11°	2961.2	2978.9	2986.3	2988.2	2981.2	2971.4	2954.7	2937.5	2925.0	2910.6	2905.9
11.5°	2956.1	2974.2	2982.1	2984.4	2976.5	2966.3	2949.1	2931.0	2918.0	2902.7	2898.0
12°	2950.1	2969.6	2977.9	2979.8	2972.4	2960.7	2943.1	2924.5	2910.6	2894.3	2889.6
12.5°	2944.0	2964.0	2973.3	2975.1	2967.2	2955.6	2937.0	2917.5	2903.1	2885.9	2880.8
13°	2938.0	2958.9	2968.6	2970.5	2961.7	2949.6	2930.5	2910.1	2894.8	2877.1	2872.0
13.5°	2931.5	2953.3	2963.1	2964.9	2956.1	2943.5	2923.6	2902.7	2886.4	2867.8	2862.2
14°	2924.5	2947.7	2957.5	2959.3	2950.5	2937.0	2916.6	2894.3	2878.0	2858.1	2852.0
14.5°	2917.1	2940.8	2951.4	2953.8	2944.0	2930.1	2908.7	2885.9	2868.7	2848.3	2841.8
15°	2909.2	2934.3	2944.9	2947.7	2937.5	2923.1	2900.8	2877.1	2859.4	2838.1	2831.1
15.5°	2901.3	2926.8	2938.0	2941.2	2930.1	2915.7	2892.9	2868.7	2849.2	2826.9	2820.0
16°	2892.4	2919.4	2931.0	2933.8	2922.6	2907.8	2884.5	2859.0	2839.5	2815.8	2808.3
16.5°	2883.6	2911.5	2923.6	2926.4	2915.2	2899.4	2875.7	2849.2	2828.8	2804.6	2796.7
17°	2873.9	2903.6	2916.1	2918.9	2906.8	2891.0	2866.4	2839.0	2817.6	2792.5	2784.6
17.5°	2864.6	2894.8	2907.8	2910.6	2898.5	2881.7	2856.7	2828.8	2806.5	2780.0	2771.6
18°	2854.3	2885.5	2898.9	2902.2	2889.2	2872.5	2846.4	2817.6	2794.9	2767.4	2758.6
18.5°	2843.6	2876.2	2890.1	2892.9	2879.9	2862.7	2835.7	2806.5	2783.2	2754.4	2745.1
19°	2833.0	2866.0	2880.4	2883.6	2870.1	2852.5	2825.1	2794.9	2770.7	2741.4	2731.2
19.5°	2821.8	2855.7	2870.6	2873.9	2860.4	2841.8	2813.9	2783.2	2758.2	2727.5	2716.8
20°	2810.2	2845.0	2860.4	2864.1	2849.7	2830.6	2802.3	2770.7	2745.1	2713.5	2702.4
20.5°	2798.1	2833.9	2849.2	2853.4	2839.0	2819.5	2790.2	2758.2	2731.7	2698.2	2687.5
21°	2785.1	2822.3	2838.5	2842.3	2827.4	2807.4	2777.7	2745.1	2717.7	2683.8	2671.7

TEST NUMBER: P776716

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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°	2744.7	2784.6	2801.8	2806.9	2791.1	2769.8	2738.2	2703.3	2674.5	2636.0	2622.9
23°	2729.8	2771.2	2789.3	2793.9	2777.7	2755.8	2723.8	2688.9	2658.7	2619.2	2605.7
23.5°	2714.5	2757.2	2775.3	2780.5	2764.2	2741.4	2708.9	2674.1	2643.4	2602.5	2588.1
24°	2699.1	2742.8	2761.9	2767.0	2750.3	2727.0	2694.0	2658.3	2627.1	2585.3	2570.0
24.5°	2683.3	2727.5	2746.5	2752.6	2735.8	2712.6	2679.2	2642.5	2610.4	2567.6	2551.8
25°	2667.1	2712.2	2732.1	2738.2	2721.0	2697.3	2663.4	2626.2	2593.7	2549.5	2533.3
25.5°	2649.9	2696.8	2716.3	2722.4	2705.6	2681.5	2647.1	2609.9	2576.5	2530.5	2513.7
26°	2632.7	2680.6	2700.5	2707.0	2689.8	2665.7	2630.8	2592.7	2558.4	2510.5	2492.8
26.5°	2614.6	2663.4	2682.9	2690.8	2673.6	2648.5	2613.2	2575.1	2539.8	2488.7	2470.5
27°	2596.5	2645.2	2666.2	2673.6	2656.4	2631.3	2595.1	2556.0	2520.3	2465.9	2446.8
27.5°	2576.0	2627.1	2647.6	2655.9	2638.7	2613.6	2576.0	2536.1	2499.8	2442.7	2421.7
28°	2557.0	2607.6	2628.1	2637.3	2620.6	2595.1	2556.0	2515.1	2477.5	2418.0	2395.3
28.5°	2535.1	2587.2	2606.7	2617.8	2603.0	2576.0	2535.6	2493.8	2454.3	2392.5	2367.8
29°	2514.2	2565.8	2586.2	2597.4	2583.0	2556.5	2513.7	2470.5	2430.1	2364.1	2338.1
29.5°	2491.4	2544.0	2563.9	2576.0	2563.0	2535.6	2491.4	2446.8	2404.1	2335.8	2307.9
30°	2468.7	2521.2	2541.2	2554.2	2542.1	2514.7	2467.3	2421.3	2376.2	2306.5	2276.8
30.5°	2443.1	2497.0	2516.5	2531.4	2521.2	2491.4	2442.7	2394.3	2347.9	2275.8	2245.2
31°	2418.5	2471.9	2492.4	2507.7	2498.4	2468.2	2417.6	2366.9	2317.2	2243.3	2211.7
31.5°	2391.1	2446.4	2466.4	2482.2	2474.7	2444.1	2390.6	2338.1	2285.6	2209.9	2179.7
32°	2362.7	2419.0	2438.9	2457.1	2450.6	2418.0	2363.7	2307.0	2252.6	2175.9	2145.7
32.5°	2332.5	2390.6	2411.5	2429.6	2424.5	2392.0	2334.9	2275.4	2217.8	2140.2	2111.8
33°	2302.3	2361.3	2383.2	2402.2	2397.6	2364.6	2305.6	2242.4	2182.5	2103.9	2076.0
33.5°	2268.9	2332.1	2354.4	2373.4	2369.2	2335.3	2275.8	2208.9	2145.7	2066.3	2041.2
34°	2233.1	2300.9	2325.6	2343.7	2340.0	2306.5	2245.2	2173.6	2108.6	2026.8	2002.6
34.5°	2195.0	2270.3	2295.4	2313.9	2307.9	2273.5	2213.6	2136.5	2070.9	1987.8	1965.9
35°	2156.4	2236.4	2264.2	2281.9	2274.5	2241.5	2180.1	2099.7	2031.9	1947.8	1926.0
35.5°	2116.0	2202.9	2232.6	2249.8	2240.1	2207.5	2146.7	2064.0	1994.3	1906.9	1885.1
36°	2072.3	2167.6	2201.0	2216.8	2203.4	2173.6	2111.4	2024.9	1955.2	1865.1	1841.4
36.5°	2027.3	2132.3	2166.7	2183.4	2164.3	2136.0	2074.2	1987.8	1916.2	1822.4	1797.7
37°	1981.7	2093.7	2132.3	2148.1	2123.4	2097.4	2034.7	1948.3	1875.3	1779.1	1750.8
37.5°	1934.3	2054.2	2094.6	2110.4	2080.2	2056.1	1994.3	1910.6	1834.9	1736.4	1702.9
38°	1886.0	2011.9	2057.5	2072.3	2034.7	2015.2	1952.5	1869.3	1793.5	1689.0	1654.6
38.5°	1836.8	1969.2	2017.0	2031.4	1988.7	1969.2	1909.2	1829.8	1751.3	1641.1	1604.9
39°	1787.5	1923.6	1974.8	1989.6	1942.2	1922.7	1864.2	1786.1	1707.1	1591.9	1551.5
39.5°	1736.9	1874.9	1930.1	1945.0	1893.4	1873.5	1817.2	1742.9	1659.7	1543.6	1498.0
40°	1685.3	1823.3	1884.6	1897.6	1843.3	1821.9	1768.5	1694.6	1610.5	1489.7	1442.7
40.5°	1633.2	1770.3	1835.8	1847.4	1794.5	1767.5	1717.3	1646.2	1558.9	1437.2	1386.5
41°	1579.8	1715.9	1784.2	1794.9	1743.8	1713.2	1664.8	1594.2	1505.9	1385.6	1331.2
41.5°	1525.4	1661.1	1733.1	1740.6	1693.2	1658.3	1609.5	1542.6	1453.4	1334.0	1275.0
42°	1469.7	1605.4	1678.8	1684.4	1640.2	1602.1	1551.9	1486.4	1399.5	1280.1	1222.5
42.5°	1413.5	1551.5	1623.9	1628.6	1588.2	1544.5	1496.2	1432.0	1348.9	1229.5	1171.4
43°	1357.7	1497.1	1565.9	1573.8	1534.7	1490.1	1439.9	1375.8	1298.2	1177.4	1121.2
43.5°	1303.3	1443.2	1509.6	1518.0	1478.0	1432.5	1384.2	1320.5	1248.0	1127.7	1071.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1145.4	1279.2	1335.4	1351.2	1311.7	1263.4	1214.1	1160.2	1098.0	979.9	932.1
45.5°	1094.7	1224.3	1275.9	1296.4	1256.4	1208.6	1158.8	1107.7	1048.2	933.9	888.9
46°	1043.1	1170.4	1216.9	1242.0	1204.8	1154.2	1102.6	1055.7	999.5	888.9	847.1
46.5°	991.6	1117.0	1160.7	1188.1	1152.8	1102.1	1049.2	1003.6	950.7	846.1	805.7
47°	940.4	1062.2	1104.0	1132.8	1101.2	1051.0	995.3	950.7	902.8	802.4	767.1
47.5°	892.1	1010.1	1049.2	1078.4	1048.7	1001.3	944.6	900.5	856.8	763.0	730.0
48°	844.3	958.1	995.3	1025.9	997.6	953.5	894.9	851.7	811.7	723.9	694.6
48.5°	797.3	907.5	944.6	973.9	947.9	907.5	848.4	804.3	768.1	686.8	659.3
49°	752.7	857.7	894.4	922.3	899.1	861.0	802.4	758.3	723.5	650.5	626.8
49.5°	710.4	808.5	846.1	873.5	850.8	815.5	759.2	714.6	681.6	616.1	595.2
50°	668.2	761.1	797.3	824.3	803.8	771.8	716.5	673.7	642.1	583.6	565.0
50.5°	628.2	715.1	752.3	776.4	757.8	729.0	677.5	634.7	603.1	552.9	536.2
51°	589.6	670.5	708.1	729.0	715.1	688.1	639.8	598.0	566.9	524.1	508.8
51.5°	552.9	627.7	665.8	685.8	672.8	649.1	605.0	564.1	533.4	496.2	482.3
52°	518.1	587.8	625.0	643.5	633.3	610.1	571.1	531.6	503.2	469.8	457.7
52.5°	485.1	550.6	586.4	602.6	593.4	573.4	539.5	501.8	474.9	445.1	434.4
53°	454.0	515.8	549.7	563.6	556.2	539.9	509.3	474.9	450.7	422.8	414.5
53.5°	426.1	483.2	514.8	528.3	520.9	507.9	481.4	449.8	428.4	403.3	394.0
54°	400.1	452.6	482.8	494.9	487.4	477.7	455.8	427.0	410.3	383.3	374.0
54.5°	377.3	425.2	451.2	463.7	456.3	449.8	431.7	408.4	392.2	363.8	354.1
55°	356.4	400.1	422.4	434.9	432.6	427.0	411.2	390.3	374.5	344.3	333.6
55.5°	336.9	377.3	396.3	408.9	409.4	404.7	391.2	371.7	356.4	327.6	317.4
56°	319.7	355.5	372.2	384.7	385.7	382.4	370.8	353.1	338.3	312.2	302.5
56.5°	304.3	335.5	350.8	362.4	362.0	360.1	350.3	334.5	322.9	297.8	289.5
57°	291.3	317.8	331.3	342.0	338.7	337.8	330.4	319.2	308.5	286.2	277.9
57.5°	278.8	302.5	313.6	323.4	321.5	321.1	314.1	304.3	295.1	274.1	266.2
58°	266.7	289.5	299.2	307.1	305.7	305.3	299.7	291.8	283.4	262.5	254.6
58.5°	254.6	276.9	286.7	293.7	293.2	292.7	287.6	280.2	271.4	250.9	242.5
59°	242.1	264.8	274.6	281.6	280.6	280.6	275.5	268.1	259.7	239.3	231.4
59.5°	230.5	252.3	262.1	269.5	268.6	268.6	263.9	256.0	247.7	228.1	220.7
60°	218.8	240.2	249.5	257.0	256.5	256.0	251.4	244.9	236.5	217.5	210.5
60.5°	207.2	228.1	237.4	244.9	243.9	243.9	239.8	233.3	225.8	207.2	200.3
61°	196.5	217.0	225.8	232.8	232.3	232.3	228.6	222.6	215.1	197.5	190.5
61.5°	186.3	205.8	214.7	221.2	220.2	221.2	217.5	211.9	204.4	188.2	181.7
62°	176.6	195.6	203.5	210.0	209.6	210.0	207.2	201.7	194.2	178.9	172.8
62.5°	166.8	185.9	193.3	199.3	198.9	199.8	197.0	191.9	184.5	170.1	164.5
63°	158.4	176.1	183.5	189.1	189.1	189.6	187.3	182.6	175.2	161.2	156.1
63.5°	150.5	165.9	174.2	179.8	179.4	180.3	178.0	173.8	165.9	152.9	148.7
64°	142.2	158.0	166.3	170.5	170.5	171.0	169.1	165.4	157.1	145.0	141.3
64.5°	134.3	150.1	158.0	162.6	162.2	162.6	160.8	156.6	148.7	137.5	134.3
65°	126.4	142.2	150.1	154.7	153.8	154.7	152.9	148.7	140.8	130.6	127.3
65.5°	118.9	134.3	142.2	146.8	145.9	146.8	145.0	141.3	133.4	123.6	121.3
66°	112.4	126.8	134.3	139.4	138.5	139.4	138.0	133.8	125.9	116.6	114.8



TEST NUMBER: P776716

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	94.3	107.3	114.3	118.0	118.0	118.9	118.0	113.8	106.4	99.0	98.0
68°	89.2	101.8	108.3	112.0	112.0	112.9	112.0	107.8	100.4	93.4	92.9
68.5°	83.6	95.7	102.2	105.9	105.9	106.9	105.9	102.2	94.8	88.3	87.8
69°	79.0	90.6	97.1	100.4	100.4	101.3	100.8	96.6	89.7	83.2	83.2
69.5°	74.3	85.5	91.5	94.8	95.3	95.7	95.3	91.1	84.6	78.5	78.5
70°	70.2	80.4	86.9	90.1	90.1	91.1	90.1	86.4	79.5	74.3	74.3
70.5°	66.0	76.2	81.8	85.0	85.0	86.0	85.5	81.3	74.8	69.7	70.2
71°	61.8	71.6	77.6	80.4	80.8	81.3	80.8	77.1	70.6	66.0	66.4
71.5°	58.1	67.4	73.4	76.2	76.2	77.1	76.7	72.5	66.4	61.8	62.7
72°	54.4	63.7	69.2	72.0	72.0	72.9	72.5	68.3	62.7	58.1	59.0
72.5°	51.1	59.9	65.1	67.8	67.8	68.8	68.3	64.6	59.0	54.8	55.8
73°	47.9	56.2	61.3	64.1	64.1	65.1	64.6	60.4	55.3	51.6	52.5
73.5°	45.1	52.5	58.1	60.4	60.9	61.3	60.9	57.2	52.0	48.3	49.3
74°	42.3	49.3	54.4	57.2	57.2	58.1	57.2	53.4	48.8	45.1	46.5
74.5°	39.5	46.5	51.1	53.9	53.9	54.4	53.9	50.2	45.5	42.3	43.2
75°	36.7	43.7	48.3	50.6	50.6	51.6	50.6	47.4	42.7	40.0	40.4
75.5°	34.4	40.9	45.1	47.4	47.9	48.3	47.9	44.1	40.0	37.2	38.1
76°	32.1	38.1	42.3	44.6	45.1	45.5	44.6	41.4	37.6	34.8	35.8
76.5°	29.7	35.3	40.0	41.8	42.3	42.7	41.8	39.0	35.3	32.1	33.5
77°	27.4	33.0	37.2	39.5	39.5	40.0	39.5	36.7	32.5	29.7	31.1
77.5°	25.6	30.7	34.8	36.7	37.2	37.6	37.2	33.9	30.2	27.4	28.8
78°	23.7	28.3	32.5	34.4	34.8	35.3	34.8	31.6	27.9	25.6	26.5
78.5°	21.8	26.5	30.2	32.1	32.5	33.0	32.1	29.3	26.0	23.7	24.6
79°	20.0	24.6	27.9	30.2	30.2	30.7	29.7	26.9	24.2	21.8	22.8
79.5°	18.1	22.8	26.0	27.9	27.9	28.3	27.9	25.1	22.3	20.0	20.9
80°	16.7	20.9	24.2	26.0	26.0	26.5	25.6	22.8	20.4	18.1	19.1
80.5°	15.3	19.1	22.3	24.2	24.2	24.6	23.7	20.9	18.6	16.7	17.7
81°	13.9	17.2	20.4	22.3	22.3	22.8	21.8	19.5	17.2	14.9	15.8
81.5°	12.1	15.8	18.6	20.4	20.4	20.9	20.4	17.7	15.3	13.5	14.4
82°	11.2	14.4	17.2	19.1	19.1	19.1	18.6	15.8	13.9	12.1	13.0
82.5°	9.8	12.5	15.8	17.2	17.2	17.7	17.2	14.4	12.5	10.7	11.6
83°	8.4	11.2	14.4	15.8	15.8	16.3	15.3	13.0	11.2	9.3	10.2
83.5°	7.4	9.8	13.0	14.4	14.4	14.9	13.9	11.6	9.8	7.9	8.8
84°	6.0	8.8	11.2	13.0	13.0	13.5	12.5	10.2	8.4	6.5	7.9
84.5°	5.1	7.4	10.2	11.6	11.6	12.1	11.2	8.8	7.4	5.6	7.0
85°	3.7	6.0	8.8	10.2	10.2	10.7	9.8	7.4	6.0	4.2	5.6
85.5°	2.8	5.1	7.9	9.3	9.3	9.3	8.8	6.5	5.1	3.7	4.6
86°	2.3	4.2	6.5	7.9	7.9	8.4	7.4	5.6	3.7	2.8	3.7
86.5°	1.9	3.3	5.6	7.0	7.0	7.0	6.5	4.6	3.3	2.3	2.8
87°	1.4	2.8	4.6	5.6	5.6	6.0	5.6	3.7	2.3	1.9	1.9
87.5°	0.9	2.3	3.7	4.6	4.6	4.6	4.6	3.3	1.9	1.4	1.4
88°	0.5	1.4	2.8	3.7	3.7	3.7	3.3	2.3	1.4	0.5	0.5
88.5°	0.0	0.9	1.9	2.8	2.8	2.8	2.3	1.9	0.9	0.0	0.0



TEST NUMBER: P776716

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMW-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776716

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
0.5°	3006.3	3007.7	3008.1	3005.3	3004.0	3005.3
1°	3004.4	3005.8	3006.7	3004.9	3004.0	3006.3
1.5°	3002.1	3003.5	3005.3	3004.0	3003.5	3006.3
2°	2999.3	3001.6	3003.0	3002.6	3002.6	3005.8
2.5°	2996.5	2998.8	3001.2	3001.2	3001.6	3005.3
3°	2993.3	2996.1	2998.8	2999.3	3000.7	3004.9
3.5°	2990.0	2993.3	2996.1	2997.4	2999.3	3004.4
4°	2986.8	2989.5	2993.3	2995.1	2997.9	3003.5
4.5°	2982.6	2986.3	2990.0	2992.3	2996.1	3002.1
5°	2978.4	2982.6	2986.3	2989.5	2993.7	3000.7
5.5°	2973.7	2977.9	2982.6	2986.8	2991.4	2999.3
6°	2969.1	2973.7	2978.4	2983.0	2988.6	2997.0
6.5°	2964.5	2969.1	2974.2	2979.8	2985.8	2994.7
7°	2958.4	2963.5	2969.6	2975.6	2982.1	2992.3
7.5°	2953.3	2958.4	2964.9	2971.4	2978.9	2989.5
8°	2947.3	2952.4	2959.8	2966.8	2975.1	2986.3
8.5°	2941.2	2946.8	2954.2	2962.1	2971.4	2983.0
9°	2934.7	2940.3	2948.2	2957.0	2966.8	2978.9
9.5°	2927.7	2933.8	2942.2	2951.4	2962.1	2975.1
10°	2920.8	2926.8	2935.6	2945.9	2957.0	2971.0
10.5°	2913.3	2919.9	2929.1	2939.4	2951.9	2966.3
11°	2905.0	2912.0	2921.7	2932.9	2946.3	2961.2
11.5°	2897.1	2904.1	2914.3	2925.9	2940.3	2956.1
12°	2888.3	2895.7	2905.9	2918.9	2933.8	2950.1
12.5°	2879.9	2886.9	2898.0	2911.5	2927.3	2944.0
13°	2870.1	2878.0	2889.2	2903.6	2920.3	2938.0
13.5°	2860.4	2868.7	2880.4	2895.2	2912.9	2931.5
14°	2850.2	2859.0	2871.1	2886.4	2905.0	2924.5
14.5°	2839.9	2848.3	2861.3	2877.6	2897.1	2917.1
15°	2829.2	2838.1	2851.5	2868.3	2888.7	2909.2
15.5°	2818.1	2827.4	2840.9	2858.5	2879.4	2901.3
16°	2806.5	2815.8	2829.7	2848.3	2870.6	2892.4
16.5°	2794.9	2804.6	2818.6	2838.1	2860.8	2883.6
17°	2782.3	2792.5	2807.4	2826.9	2850.6	2873.9
17.5°	2770.2	2780.0	2795.3	2815.8	2839.9	2864.6
18°	2756.3	2767.4	2783.2	2804.6	2829.2	2854.3
18.5°	2743.3	2754.4	2770.7	2792.1	2817.6	2843.6
19°	2729.3	2741.0	2757.7	2779.5	2806.0	2833.0
19.5°	2714.9	2727.5	2744.2	2767.0	2794.4	2821.8
20°	2700.1	2713.5	2730.7	2754.0	2781.9	2810.2
20.5°	2685.2	2699.1	2716.8	2740.5	2768.8	2798.1
21°	2669.9	2684.3	2701.9	2726.1	2755.4	2785.1

TEST NUMBER: P776716

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2621.1	2637.3	2655.9	2681.5	2712.6	2744.7
23°	2603.9	2620.6	2639.7	2665.7	2696.8	2729.8
23.5°	2586.2	2603.0	2623.4	2649.4	2681.0	2714.5
24°	2568.6	2585.8	2605.7	2632.2	2664.8	2699.1
24.5°	2550.5	2568.1	2588.6	2615.0	2648.0	2683.3
25°	2531.9	2550.0	2570.4	2597.4	2630.8	2667.1
25.5°	2512.4	2530.9	2552.3	2579.3	2613.2	2649.9
26°	2491.0	2511.4	2531.9	2559.7	2595.1	2632.7
26.5°	2469.1	2490.1	2511.0	2538.8	2576.5	2614.6
27°	2445.4	2468.2	2488.2	2517.5	2557.0	2596.5
27.5°	2420.4	2443.6	2465.0	2495.2	2536.1	2576.0
28°	2394.3	2419.0	2440.3	2470.5	2515.1	2557.0
28.5°	2367.4	2391.1	2414.3	2446.4	2492.4	2535.1
29°	2338.6	2363.2	2387.4	2421.3	2469.1	2514.2
29.5°	2309.3	2333.0	2359.0	2394.8	2445.0	2491.4
30°	2277.7	2302.3	2329.3	2366.5	2419.4	2468.7
30.5°	2245.2	2267.5	2298.2	2339.0	2393.4	2443.1
31°	2211.3	2234.5	2264.7	2309.3	2365.1	2418.5
31.5°	2177.3	2198.3	2231.2	2279.6	2336.3	2391.1
32°	2140.6	2160.6	2196.4	2247.5	2306.5	2362.7
32.5°	2103.5	2121.1	2160.6	2216.8	2275.4	2332.5
33°	2064.9	2085.3	2123.9	2184.3	2242.4	2302.3
33.5°	2024.9	2046.8	2085.8	2149.9	2209.4	2268.9
34°	1985.4	2007.7	2048.2	2112.8	2175.0	2233.1
34.5°	1945.0	1967.3	2009.1	2076.5	2138.3	2195.0
35°	1903.2	1929.2	1970.6	2037.9	2100.2	2156.4
35.5°	1861.4	1890.2	1932.0	1998.0	2061.2	2116.0
36°	1818.2	1850.2	1891.1	1953.4	2019.4	2072.3
36.5°	1775.0	1807.9	1850.7	1911.6	1975.7	2027.3
37°	1729.9	1764.7	1807.9	1866.0	1928.3	1981.7
37.5°	1683.9	1720.6	1762.9	1819.6	1880.9	1934.3
38°	1636.5	1673.7	1716.4	1770.3	1828.4	1886.0
38.5°	1586.3	1623.9	1668.1	1719.2	1777.3	1836.8
39°	1535.2	1571.9	1618.4	1665.3	1720.1	1787.5
39.5°	1483.2	1518.0	1564.5	1610.5	1664.8	1736.9
40°	1430.2	1464.1	1511.0	1553.8	1606.8	1685.3
40.5°	1378.1	1411.1	1454.8	1497.1	1550.5	1633.2
41°	1325.2	1359.1	1399.5	1439.5	1493.8	1579.8
41.5°	1272.2	1308.4	1344.2	1382.8	1436.7	1525.4
42°	1220.6	1258.3	1289.4	1326.1	1379.1	1469.7
42.5°	1169.1	1208.1	1234.6	1269.4	1324.2	1413.5
43°	1117.9	1158.8	1181.6	1211.8	1268.5	1357.7
43.5°	1066.8	1106.8	1128.6	1157.0	1213.7	1303.3



TEST NUMBER: P776716

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	924.2	957.6	972.0	996.2	1056.6	1145.4
45.5°	879.6	908.9	921.9	946.0	1008.3	1094.7
46°	836.4	862.4	872.1	897.7	960.9	1043.1
46.5°	792.2	816.9	823.8	851.7	914.0	991.6
47°	751.8	772.2	777.8	805.2	868.0	940.4
47.5°	713.2	727.6	734.1	763.0	822.9	892.1
48°	677.0	685.4	691.9	721.6	778.8	844.3
48.5°	639.8	644.9	652.4	682.1	737.4	797.3
49°	606.4	606.8	614.7	644.9	695.6	752.7
49.5°	574.3	570.6	579.4	609.6	656.1	710.4
50°	544.1	537.1	546.4	575.2	617.1	668.2
50.5°	514.4	505.5	515.3	542.7	581.3	628.2
51°	488.3	478.1	486.5	513.0	546.4	589.6
51.5°	462.8	453.5	460.9	485.1	514.4	552.9
52°	438.6	431.2	437.2	458.6	484.6	518.1
52.5°	418.6	410.7	414.9	433.5	456.3	485.1
53°	399.1	391.7	395.0	410.3	429.8	454.0
53.5°	379.6	373.6	375.4	388.4	404.7	426.1
54°	359.6	356.8	357.8	368.0	381.9	400.1
54.5°	340.1	340.6	341.1	349.0	361.0	377.3
55°	323.4	324.8	324.8	331.3	342.0	356.4
55.5°	308.5	309.9	309.9	314.6	323.9	336.9
56°	295.1	296.4	296.4	300.2	307.6	319.7
56.5°	283.0	284.8	284.4	287.6	294.1	304.3
57°	271.4	272.7	272.7	275.5	282.0	291.3
57.5°	259.7	261.1	260.7	263.5	270.0	278.8
58°	248.1	249.5	249.1	251.4	257.9	266.7
58.5°	236.5	237.9	237.0	239.8	245.3	254.6
59°	225.8	226.7	226.3	228.1	233.3	242.1
59.5°	215.1	216.5	215.6	217.0	222.1	230.5
60°	204.4	205.8	204.9	206.8	211.4	218.8
60.5°	195.2	196.1	195.2	196.5	200.7	207.2
61°	185.9	186.8	185.4	186.8	190.5	196.5
61.5°	176.6	177.5	176.6	178.0	181.2	186.3
62°	168.2	169.1	167.7	169.1	172.4	176.6
62.5°	159.8	161.7	159.8	161.2	164.0	166.8
63°	151.9	154.3	152.4	153.8	156.1	158.4
63.5°	144.5	146.4	145.0	145.9	148.2	150.5
64°	137.5	138.9	137.5	138.5	140.3	142.2
64.5°	130.6	131.0	130.1	130.6	132.4	134.3
65°	124.1	124.5	123.6	124.1	125.5	126.4
65.5°	117.6	118.0	117.1	117.6	118.5	118.9
66°	111.5	112.0	111.1	111.5	112.0	112.4



TEST NUMBER: P776716

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	95.3	95.7	94.8	94.8	94.8	94.3
68°	90.1	90.6	89.7	90.1	89.2	89.2
68.5°	85.5	86.0	85.0	85.0	84.6	83.6
69°	80.8	81.3	80.4	80.8	79.5	79.0
69.5°	76.7	77.1	76.2	76.2	75.3	74.3
70°	72.5	72.9	72.0	72.0	70.6	70.2
70.5°	68.3	68.8	67.8	67.8	66.4	66.0
71°	64.6	65.1	64.1	64.1	62.7	61.8
71.5°	60.9	61.3	60.4	60.4	59.0	58.1
72°	57.6	57.6	57.2	57.2	55.3	54.4
72.5°	54.4	54.4	53.9	53.9	52.0	51.1
73°	51.1	51.1	50.6	50.6	48.8	47.9
73.5°	47.9	48.3	47.4	47.4	45.5	45.1
74°	45.1	45.1	44.6	44.6	42.7	42.3
74.5°	42.3	42.3	41.8	41.8	40.0	39.5
75°	40.0	40.0	39.5	39.0	37.6	36.7
75.5°	37.6	37.2	36.7	36.7	34.8	34.4
76°	35.3	34.8	34.4	33.9	32.5	32.1
76.5°	33.0	32.5	32.1	32.1	30.2	29.7
77°	30.7	30.7	30.2	29.7	27.9	27.4
77.5°	28.3	28.3	27.9	27.4	26.0	25.6
78°	26.0	26.5	26.0	25.6	23.7	23.7
78.5°	24.2	24.6	24.2	23.7	21.8	21.8
79°	22.3	22.8	22.3	21.8	20.4	20.0
79.5°	20.9	20.9	20.4	20.0	18.6	18.1
80°	19.1	19.1	19.1	18.1	16.7	16.7
80.5°	17.2	17.7	17.2	16.7	15.3	15.3
81°	15.8	16.3	15.8	15.3	13.9	13.9
81.5°	14.4	14.9	14.4	13.9	12.1	12.1
82°	13.0	13.5	13.0	12.5	10.7	11.2
82.5°	11.6	11.6	11.6	11.2	9.3	9.8
83°	10.2	10.7	10.2	9.8	7.9	8.4
83.5°	9.3	9.3	8.8	8.4	7.0	7.4
84°	7.9	7.9	7.9	7.4	6.0	6.0
84.5°	7.0	7.0	6.5	6.5	4.6	5.1
85°	5.6	5.6	5.6	5.6	4.2	3.7
85.5°	4.6	4.6	4.6	4.2	3.3	2.8
86°	3.7	3.7	3.7	3.3	2.8	2.3
86.5°	2.8	2.8	2.3	2.3	1.9	1.9
87°	1.4	1.9	1.4	1.4	1.4	1.4
87.5°	0.5	0.9	0.5	0.9	0.9	0.9
88°	0.0	0.0	0.0	0.0	0.5	0.5
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776716

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRMW-5000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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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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°	2772.1	2810.2	2826.5	2831.1	2815.8	2795.3	2765.1	2731.7	2703.8	2668.0	2655.9
22°	2758.6	2797.6	2814.8	2819.0	2803.7	2782.8	2751.6	2717.7	2689.4	2652.2	2639.7



44°	1249.9	1388.8	1451.1	1462.7	1421.8	1376.3	1326.6	1265.7	1198.3	1076.1	1024.1
44.5°	1197.4	1333.1	1393.5	1407.0	1365.6	1320.1	1268.5	1213.2	1147.7	1028.3	978.1



66.5°	105.9	120.3	126.8	131.5	131.0	132.0	131.0	126.8	118.9	110.6	109.2
67°	99.9	113.4	120.3	124.5	124.5	125.5	124.1	120.3	112.4	104.5	103.6



89°	0.0	0.5	0.9	1.9	1.9	1.4	0.9	0.5	0.0	0.0
89.5°	0.0	0.0	0.5	0.9	0.9	0.9	0.5	0.0	0.0	0.0

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21.5°	2654.1	2668.9	2687.1	2711.7	2741.4	2772.1
22°	2637.8	2653.1	2671.3	2696.8	2727.5	2758.6



44°	1018.5	1056.1	1076.1	1103.1	1159.8	1249.9
44.5°	971.1	1006.9	1023.2	1049.6	1107.7	1197.4

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66.5°	105.9	106.4	105.5	105.9	105.9	105.9
67°	100.4	100.8	99.9	100.4	100.4	99.9

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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)