

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: P776680

Luminaire Tested: HCDJBS4050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B061)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS4050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K
Description: 6 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5195.4 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.09 / 1.15
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

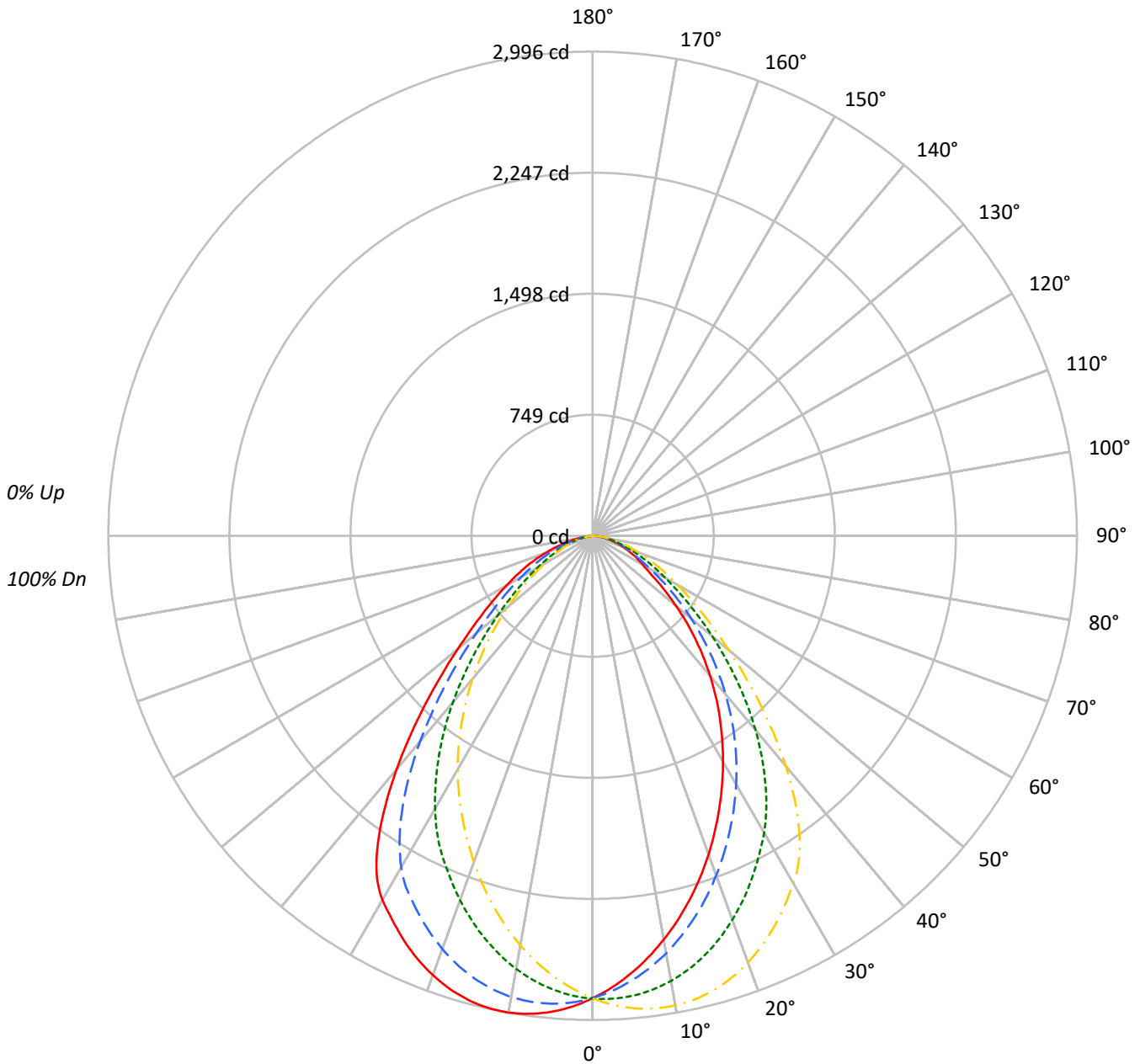
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77				77				
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60				60				
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53				53				
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48				48				
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43				43				
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41	39				39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				36				
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33				33				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	156868	156868	156868	156868
5°	149598	157219	162733	155090
10°	141208	155686	166747	151506
15°	132072	152396	168741	146346
20°	122330	147479	168744	139930
25°	112258	141256	167078	132709
30°	102079	134293	164671	123424
35°	91698	124658	154847	110878
40°	80902	112110	134931	96230
45°	69348	97498	112616	80334
50°	57363	82309	92875	65405
55°	46249	68289	78172	52911
60°	39317	56651	67549	43012
65°	35698	47696	59047	34932
70°	31704	40023	49960	27905
75°	27789	33784	39672	21901
80°	23014	29202	26771	16385
85°	14341	28116	9435	9183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 115020 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	5.2
10°-20°	742.1	14.3
20°-30°	1051.0	20.2
30°-40°	1119.7	21.6
40°-50°	898.7	17.3
50°-60°	583.5	11.2
60°-70°	338.4	6.5
70°-80°	159.1	3.1
80°-90°	34.7	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°	2061.4	39.7
0°-40°	3181.1	61.2
0°-60°	4663.3	89.8
0°-90°	5195.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5195.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2862	2862	2862	2862	2862	
5°	2718	2857	2957	2818	2718	254
15°	2327	2685	2973	2579	2327	652
25°	1856	2335	2762	2194	1856	852
35°	1370	1863	2314	1657	1370	855
45°	894	1258	1453	1036	894	689
55°	484	714	818	554	484	440
65°	275	368	455	269	275	273
75°	131	160	187	103	131	140
85°	23	45	15	15	23	30
90°	0	7	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°	2861.5	2861.5	2861.5	2861.5	2861.5	2861.5	2861.5	2861.5	2861.5	2861.5	2861.5
0.5°	2849.7	2849.7	2852.9	2857.9	2866.1	2868.8	2871.6	2872.9	2874.3	2870.7	2867.5
1°	2836.9	2838.8	2845.1	2854.2	2867.0	2874.3	2880.7	2884.3	2885.2	2880.7	2873.8
1.5°	2823.7	2827.4	2836.0	2850.1	2867.5	2879.8	2889.3	2894.8	2896.2	2889.8	2879.8
2°	2810.1	2815.1	2827.4	2845.1	2867.9	2884.3	2897.5	2904.8	2906.2	2898.4	2885.2
2.5°	2795.5	2802.3	2817.8	2839.7	2867.0	2888.0	2905.3	2914.4	2916.2	2906.7	2890.2
3°	2780.9	2789.5	2807.8	2834.2	2866.1	2891.6	2912.1	2923.5	2925.3	2914.4	2894.3
3.5°	2766.3	2775.9	2797.3	2827.8	2864.7	2894.3	2918.5	2932.2	2934.4	2921.2	2898.4
4°	2750.8	2762.2	2786.4	2821.0	2862.9	2897.1	2924.4	2940.4	2942.2	2928.1	2901.2
4.5°	2734.9	2748.1	2775.0	2813.7	2860.2	2898.9	2929.9	2947.7	2949.9	2934.0	2904.4
5°	2718.5	2733.0	2763.1	2805.5	2857.0	2899.8	2934.9	2955.0	2957.2	2939.5	2906.2
5.5°	2702.1	2718.0	2750.8	2797.7	2853.3	2900.7	2939.0	2961.3	2963.6	2944.5	2908.0
6°	2684.7	2702.5	2738.5	2788.6	2849.2	2900.7	2942.6	2966.8	2969.5	2948.6	2908.9
6.5°	2667.4	2686.6	2725.3	2779.5	2844.2	2900.3	2945.8	2971.8	2975.0	2952.7	2909.4
7°	2649.7	2670.2	2711.6	2769.5	2839.2	2899.4	2948.1	2976.4	2979.6	2955.4	2909.4
7.5°	2631.9	2653.3	2698.0	2759.0	2833.3	2898.0	2949.9	2980.5	2983.7	2958.1	2908.9
8°	2613.7	2636.4	2683.4	2748.5	2826.9	2895.7	2951.3	2983.7	2987.3	2960.0	2908.0
8.5°	2594.5	2619.1	2668.3	2737.6	2820.1	2893.0	2952.2	2986.8	2990.0	2961.3	2906.2
9°	2575.8	2600.9	2653.3	2725.8	2812.8	2889.8	2952.2	2988.7	2992.8	2962.2	2903.9
9.5°	2556.2	2582.7	2637.8	2713.5	2805.0	2886.1	2951.8	2990.5	2994.1	2962.7	2901.2
10°	2536.7	2564.9	2621.9	2700.7	2796.8	2881.6	2950.8	2991.4	2995.5	2962.2	2898.0
10.5°	2516.6	2546.7	2605.5	2687.9	2787.7	2877.0	2949.5	2991.9	2996.0	2960.9	2893.9
11°	2497.0	2527.5	2588.6	2674.3	2778.6	2871.6	2947.2	2991.4	2996.0	2959.5	2889.3
11.5°	2476.1	2507.9	2571.3	2660.6	2768.1	2865.6	2944.5	2990.5	2995.0	2957.2	2883.9
12°	2455.5	2488.8	2554.0	2646.0	2758.1	2858.8	2941.3	2989.1	2993.7	2954.5	2878.4
12.5°	2434.6	2468.3	2536.2	2631.0	2747.6	2852.0	2937.2	2986.8	2991.9	2951.3	2872.5
13°	2413.6	2449.2	2518.4	2615.9	2736.2	2844.2	2932.6	2984.1	2989.1	2947.2	2865.6
13.5°	2391.8	2428.7	2499.7	2600.9	2723.9	2836.0	2927.2	2980.9	2985.9	2943.1	2858.4
14°	2370.8	2408.2	2481.1	2585.0	2711.6	2827.4	2921.7	2976.8	2982.3	2938.1	2850.6
14.5°	2348.5	2386.7	2462.4	2568.1	2698.9	2817.8	2915.3	2972.3	2978.2	2932.2	2842.4
15°	2327.1	2366.2	2442.8	2551.7	2685.2	2807.8	2908.5	2967.3	2973.2	2925.8	2833.7
15.5°	2303.8	2344.4	2422.7	2533.9	2672.0	2797.7	2901.2	2961.3	2967.3	2919.0	2824.2
16°	2281.9	2323.0	2403.6	2517.1	2657.4	2786.8	2893.0	2955.0	2961.3	2911.7	2814.6
16.5°	2259.6	2301.1	2383.6	2498.8	2642.8	2775.4	2884.3	2948.1	2954.5	2903.9	2804.6
17°	2236.8	2279.7	2363.0	2480.6	2627.3	2763.6	2875.2	2940.4	2947.2	2895.7	2794.1
17.5°	2213.6	2257.3	2342.1	2461.9	2612.3	2751.3	2865.6	2932.6	2939.5	2886.6	2782.7
18°	2190.8	2235.5	2321.6	2443.2	2595.9	2737.6	2855.2	2923.5	2931.3	2877.5	2770.9
18.5°	2167.1	2212.7	2300.2	2423.7	2579.5	2724.4	2844.2	2914.4	2922.1	2867.5	2758.6
19°	2144.3	2190.4	2279.2	2404.1	2562.6	2710.7	2833.3	2904.8	2912.6	2857.0	2746.3
19.5°	2120.6	2167.1	2257.3	2384.5	2545.8	2696.6	2821.4	2894.8	2902.5	2846.0	2733.5
20°	2096.9	2144.8	2235.9	2364.9	2528.0	2682.0	2809.1	2883.9	2892.5	2835.1	2720.3
20.5°	2072.8	2121.5	2214.0	2343.9	2510.2	2666.5	2796.4	2872.5	2881.1	2823.3	2706.2
21°	2049.6	2098.3	2191.7	2323.9	2491.5	2651.0	2783.2	2861.1	2869.7	2810.5	2692.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1977.1	2028.1	2124.3	2260.5	2436.0	2601.8	2741.7	2823.3	2832.8	2771.8	2647.4
23°	1953.0	2004.0	2101.5	2239.1	2415.9	2584.5	2726.7	2810.1	2819.6	2757.7	2631.4
23.5°	1929.3	1980.8	2079.2	2217.2	2396.3	2567.6	2711.2	2795.5	2805.9	2743.5	2615.5
24°	1905.1	1956.6	2055.9	2195.8	2375.8	2549.0	2695.7	2781.3	2791.8	2728.5	2599.1
24.5°	1880.5	1932.9	2032.7	2173.5	2355.8	2531.2	2679.7	2766.3	2777.2	2713.5	2582.2
25°	1855.9	1909.2	2009.9	2151.2	2335.3	2513.0	2662.9	2751.7	2762.2	2698.0	2564.5
25.5°	1831.8	1884.6	1986.7	2128.4	2314.7	2493.8	2646.5	2735.8	2747.2	2682.0	2547.6
26°	1807.6	1860.9	1963.0	2106.5	2293.3	2475.1	2629.6	2719.8	2731.2	2665.6	2530.3
26.5°	1783.5	1836.8	1940.2	2084.6	2272.8	2456.0	2611.8	2703.0	2714.8	2649.2	2513.0
27°	1758.8	1813.5	1917.0	2061.9	2251.0	2436.4	2593.6	2687.0	2698.4	2632.3	2496.6
27.5°	1734.2	1789.4	1893.7	2039.1	2230.0	2416.4	2575.8	2669.3	2682.0	2616.9	2479.2
28°	1709.6	1764.3	1870.0	2016.7	2208.1	2396.3	2557.6	2652.4	2665.6	2600.9	2460.6
28.5°	1685.9	1740.2	1846.8	1994.4	2187.2	2376.3	2538.9	2635.1	2650.1	2585.4	2439.6
29°	1661.3	1716.5	1823.1	1971.2	2165.3	2356.2	2520.3	2618.2	2635.1	2568.1	2416.8
29.5°	1636.7	1692.3	1799.4	1947.9	2143.9	2337.1	2502.5	2601.8	2618.7	2549.0	2393.1
30°	1612.6	1668.2	1775.7	1925.2	2121.5	2316.1	2484.7	2585.4	2601.4	2527.5	2368.1
30.5°	1588.4	1644.0	1751.6	1901.5	2098.8	2295.2	2465.1	2567.6	2582.7	2503.8	2341.6
31°	1563.8	1619.9	1727.9	1876.4	2075.1	2272.8	2445.5	2549.0	2561.7	2478.8	2312.9
31.5°	1539.7	1596.2	1703.3	1852.7	2050.5	2249.6	2423.7	2527.1	2538.5	2452.4	2283.8
32°	1515.1	1571.1	1679.1	1827.6	2025.9	2224.5	2400.0	2504.3	2513.4	2423.7	2254.1
32.5°	1490.9	1547.0	1655.0	1802.6	1999.9	2198.1	2374.4	2479.7	2485.6	2393.1	2222.7
33°	1467.2	1522.8	1629.9	1777.5	1973.0	2171.2	2348.9	2453.3	2455.5	2360.3	2189.9
33.5°	1443.1	1498.7	1605.7	1751.6	1946.6	2143.9	2320.7	2423.7	2422.7	2325.7	2156.2
34°	1418.9	1474.1	1580.7	1725.6	1918.8	2115.6	2292.0	2392.2	2387.7	2290.6	2122.5
34.5°	1394.8	1450.4	1556.1	1698.7	1891.0	2086.9	2261.4	2358.5	2352.1	2253.7	2086.0
35°	1370.2	1425.8	1531.0	1672.3	1862.7	2056.4	2229.1	2323.0	2313.8	2215.9	2050.0
35.5°	1346.9	1401.6	1506.0	1645.4	1834.0	2026.3	2195.8	2286.5	2274.7	2176.2	2013.1
36°	1323.2	1377.5	1480.9	1618.5	1805.3	1995.3	2161.6	2248.7	2234.6	2136.1	1975.3
36.5°	1299.1	1353.3	1455.8	1591.2	1776.2	1963.9	2126.1	2209.0	2192.6	2096.0	1937.0
37°	1274.5	1328.2	1430.3	1564.3	1747.0	1931.5	2090.1	2168.5	2149.8	2054.1	1897.4
37.5°	1250.8	1304.1	1405.3	1537.4	1717.4	1898.3	2052.3	2127.5	2107.0	2011.7	1857.7
38°	1226.6	1279.9	1379.3	1510.1	1686.9	1866.8	2014.5	2086.5	2063.2	1968.4	1818.1
38.5°	1202.5	1255.8	1354.7	1482.7	1657.7	1831.8	1976.2	2044.1	2019.5	1926.5	1778.4
39°	1178.8	1231.2	1329.6	1455.8	1627.2	1798.0	1937.5	2001.3	1974.4	1882.3	1738.3
39.5°	1154.6	1207.5	1304.1	1428.0	1597.1	1763.4	1897.4	1957.5	1930.2	1839.5	1698.7
40°	1130.5	1183.3	1278.1	1400.7	1566.6	1729.7	1857.3	1913.8	1885.5	1795.8	1657.2
40.5°	1106.8	1159.2	1253.5	1373.4	1535.1	1692.3	1817.6	1870.0	1840.9	1753.4	1617.1
41°	1082.6	1135.0	1228.0	1346.0	1504.6	1657.7	1777.5	1826.3	1796.2	1708.7	1577.0
41.5°	1059.0	1111.8	1202.9	1318.7	1473.6	1622.1	1737.4	1781.6	1751.1	1666.8	1537.4
42°	1034.8	1087.7	1177.9	1290.9	1443.1	1588.0	1696.0	1737.9	1707.4	1622.6	1496.8
42.5°	1011.6	1064.4	1153.3	1264.0	1412.1	1550.6	1655.9	1695.1	1664.1	1581.1	1458.6
43°	987.9	1040.7	1128.2	1235.7	1380.6	1515.5	1615.8	1652.2	1620.3	1538.3	1418.9
43.5°	964.2	1017.0	1103.6	1210.2	1349.7	1479.1	1576.1	1609.8	1577.5	1497.3	1380.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	894.5	946.9	1029.8	1128.7	1257.6	1373.4	1457.7	1483.6	1452.6	1376.1	1268.1
45.5°	871.2	924.1	1005.6	1103.6	1226.6	1337.8	1418.9	1444.4	1412.1	1337.4	1232.1
46°	848.9	901.3	981.9	1077.2	1197.0	1303.2	1381.1	1404.3	1372.9	1298.6	1196.6
46.5°	826.1	878.5	957.8	1050.8	1166.5	1269.5	1343.7	1366.5	1333.7	1261.3	1161.5
47°	803.3	856.2	934.1	1023.9	1136.4	1235.7	1305.5	1326.9	1295.9	1224.8	1127.3
47.5°	781.0	833.4	910.9	999.3	1106.8	1201.6	1269.5	1290.4	1259.0	1188.8	1094.5
48°	758.7	811.1	887.6	973.7	1078.1	1168.8	1234.4	1254.0	1223.4	1154.2	1061.7
48.5°	736.8	789.2	864.4	949.1	1048.9	1136.9	1199.3	1219.3	1188.8	1120.5	1030.2
49°	715.4	767.3	842.1	923.2	1020.7	1105.4	1165.6	1183.3	1154.2	1088.1	998.8
49.5°	694.0	745.9	819.3	899.0	992.4	1073.1	1132.3	1150.5	1121.8	1055.8	969.2
50°	672.6	724.0	796.5	874.4	965.1	1042.5	1099.5	1117.3	1089.0	1024.8	940.0
50.5°	652.0	702.2	774.6	850.3	936.8	1012.5	1067.2	1085.8	1057.6	994.2	911.8
51°	631.5	681.7	752.7	826.6	910.4	982.9	1037.1	1054.4	1027.1	965.1	884.0
51.5°	611.5	661.2	730.9	802.4	885.3	954.2	1007.5	1024.3	998.3	937.3	857.6
52°	591.9	641.1	709.9	779.2	858.9	925.4	977.4	995.2	969.6	910.4	832.0
52.5°	572.8	620.6	688.5	756.4	832.9	897.2	949.1	967.8	942.3	884.0	806.5
53°	554.1	601.0	668.0	733.6	808.3	870.8	921.3	939.6	915.9	858.0	782.4
53.5°	535.4	581.4	646.6	711.7	783.7	844.3	894.9	913.1	889.4	833.9	759.1
54°	518.1	563.2	627.0	689.9	760.5	818.8	868.9	887.2	864.8	810.2	735.9
54.5°	500.8	545.0	607.8	668.5	736.8	793.8	843.0	862.1	840.7	786.9	714.0
55°	483.9	526.7	588.3	647.5	714.5	769.6	819.3	838.0	817.9	765.1	692.6
55.5°	467.5	509.4	569.1	627.4	692.1	746.4	794.7	814.3	794.7	742.7	672.1
56°	452.5	492.1	550.9	606.9	670.3	723.6	771.4	791.0	772.3	722.7	652.0
56.5°	437.4	475.3	532.2	587.8	649.3	701.3	748.6	768.2	750.9	701.7	632.0
57°	423.3	459.8	514.0	568.7	628.4	679.8	726.3	746.8	730.4	682.1	613.3
57.5°	409.6	443.8	495.8	549.5	608.8	658.4	705.4	725.4	709.9	662.5	594.6
58°	397.8	428.8	479.4	531.8	589.2	638.8	684.4	705.4	690.3	644.3	577.3
58.5°	385.9	413.7	462.5	514.0	570.5	619.2	664.4	685.3	671.2	625.6	559.5
59°	375.5	400.5	446.1	497.1	552.3	599.6	644.8	665.7	652.0	607.4	542.2
59.5°	365.9	387.3	430.1	479.8	534.0	580.5	624.7	646.6	633.8	590.1	525.8
60°	358.6	375.0	415.6	463.4	516.7	562.3	606.0	627.9	616.1	573.7	509.9
60.5°	350.9	363.2	400.5	447.9	499.9	544.5	588.3	609.7	598.7	555.9	493.9
61°	342.7	353.6	386.4	432.4	483.5	527.2	570.5	591.9	581.0	539.5	478.4
61.5°	334.5	344.5	373.2	416.9	467.5	510.3	553.2	574.6	564.6	524.0	462.9
62°	325.8	337.2	360.4	402.8	452.0	494.4	535.9	557.7	548.6	508.5	448.4
62.5°	317.1	329.0	347.7	388.2	436.5	478.0	519.0	540.9	532.2	492.6	433.3
63°	308.5	320.8	336.3	374.6	421.9	462.0	502.6	524.5	515.8	477.1	419.2
63.5°	300.3	312.6	324.4	360.9	407.4	447.5	486.6	508.1	500.3	462.0	405.1
64°	291.6	304.4	313.5	348.6	394.1	432.4	471.2	492.6	485.3	447.9	391.9
64.5°	283.4	295.7	303.0	335.8	380.9	418.3	455.7	477.5	469.8	432.9	378.7
65°	275.2	288.0	293.4	323.5	367.7	403.7	441.1	462.5	455.2	419.2	365.4
65.5°	267.0	280.2	283.9	311.7	354.5	390.5	426.5	447.5	440.2	404.6	352.2
66°	258.8	272.0	274.8	300.3	340.8	377.3	411.9	432.4	425.1	391.0	339.0



TEST NUMBER: P776680

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	235.1	248.3	250.2	267.5	305.3	337.2	371.4	390.5	381.8	350.4	302.1
68°	227.8	240.6	242.9	257.9	293.4	324.9	358.1	376.8	367.7	336.7	289.8
68.5°	220.1	232.8	235.6	247.9	282.1	312.6	344.5	363.2	353.6	323.1	278.4
69°	212.8	225.6	228.7	238.3	271.1	300.3	331.7	349.5	339.0	309.8	267.0
69.5°	205.0	218.3	221.9	229.2	260.2	288.9	318.5	335.4	325.3	297.1	255.6
70°	197.8	211.0	215.1	220.5	249.7	277.0	306.2	322.6	311.7	283.9	244.2
70.5°	190.5	203.7	208.2	211.9	239.7	266.1	294.4	309.4	298.5	271.6	233.8
71°	183.6	196.4	201.4	203.7	229.7	255.2	282.5	297.1	285.2	259.7	223.3
71.5°	176.8	189.6	195.0	195.5	220.1	244.7	270.7	283.9	272.0	247.4	212.3
72°	170.0	182.7	188.2	188.2	210.5	234.2	259.3	272.0	259.3	235.6	202.3
72.5°	164.5	175.9	181.8	180.4	201.4	223.7	247.9	259.7	247.0	223.7	192.3
73°	157.7	169.0	175.4	173.6	192.7	214.2	236.9	247.9	234.7	212.3	182.3
73.5°	151.3	164.5	169.0	166.8	184.1	204.1	226.0	236.5	221.9	201.4	172.7
74°	144.4	158.1	165.4	160.4	175.9	195.0	215.5	225.1	210.5	190.5	163.1
74.5°	137.6	151.3	158.6	154.0	167.7	185.5	205.5	213.7	198.7	179.5	154.0
75°	131.2	144.4	152.2	148.1	159.5	176.3	195.5	202.8	187.3	169.0	144.9
75.5°	125.3	137.6	145.8	141.7	151.7	167.7	185.5	192.3	175.9	159.0	136.2
76°	118.9	131.2	139.0	135.8	144.4	159.5	175.4	181.8	164.5	149.0	127.6
76.5°	113.0	125.3	133.1	129.9	137.2	150.8	165.9	171.3	154.0	139.4	118.9
77°	107.1	118.9	127.1	124.4	130.3	142.6	156.7	161.3	143.5	129.9	111.2
77.5°	101.2	113.0	121.7	118.9	123.0	134.9	147.6	151.7	133.1	120.7	103.0
78°	95.2	107.1	115.7	113.9	116.6	127.1	139.0	142.6	123.0	111.6	95.7
78.5°	89.8	101.2	110.3	108.4	110.3	119.8	130.3	133.1	113.0	103.0	87.9
79°	83.8	95.7	104.8	103.4	104.3	112.5	122.1	123.9	103.4	94.8	80.7
79.5°	78.4	89.8	99.3	98.4	98.0	105.7	113.9	115.7	93.9	86.6	73.8
80°	72.9	84.3	93.9	93.4	92.5	98.9	106.2	107.1	84.8	78.4	67.0
80.5°	67.9	78.8	88.4	88.9	87.0	92.5	98.4	98.9	76.1	71.1	60.6
81°	62.4	73.4	83.4	83.8	81.6	86.1	91.1	90.7	67.4	63.8	54.2
81.5°	57.0	67.9	77.9	78.8	76.6	79.7	83.8	82.5	59.2	56.5	48.3
82°	51.9	62.9	72.9	74.3	71.5	73.8	76.6	74.3	51.5	50.1	43.3
82.5°	46.9	57.4	67.9	69.3	66.5	67.9	69.7	66.5	45.1	44.2	37.8
83°	41.9	52.4	62.9	64.7	62.0	62.9	63.3	59.2	38.7	38.3	32.8
83.5°	37.4	47.4	57.9	60.1	57.4	57.4	57.4	52.4	32.4	32.4	27.8
84°	32.4	42.4	53.3	55.6	52.9	51.9	51.0	46.0	26.0	26.4	22.3
84.5°	27.3	37.4	48.8	51.5	48.8	47.4	46.0	39.6	19.6	20.5	18.7
85°	22.8	32.4	44.2	46.9	44.7	42.8	41.0	33.7	15.0	15.9	14.6
85.5°	18.2	27.8	39.6	42.4	40.6	38.3	35.5	27.3	11.8	11.8	11.4
86°	15.5	23.2	35.5	38.3	36.5	34.2	30.5	21.4	9.1	8.7	8.2
86.5°	12.8	19.6	31.0	33.7	32.8	29.6	25.1	16.9	7.3	5.9	5.5
87°	10.0	16.4	26.9	29.6	28.7	25.1	21.0	13.2	5.5	3.6	3.2
87.5°	6.8	13.7	22.8	25.5	25.1	21.4	16.9	9.6	4.1	1.8	1.4
88°	5.0	10.5	18.7	21.4	21.4	17.3	13.2	6.4	2.7	0.9	0.5
88.5°	2.7	7.7	15.5	17.3	17.3	14.1	9.6	4.1	1.4	0.5	0.0



TEST NUMBER: P776680

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.5	4.6	6.4	6.8	4.6	1.8	0.5	0.0	0.0	0.0



TEST NUMBER: P776680

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2861.5	2861.5	2861.5	2861.5	2861.5	2861.5
0.5°	2863.8	2862.0	2856.1	2852.0	2849.2	2849.7
1°	2866.1	2859.3	2848.8	2841.0	2836.5	2836.9
1.5°	2867.9	2856.1	2841.0	2829.6	2823.3	2823.7
2°	2868.8	2852.0	2832.8	2818.3	2809.6	2810.1
2.5°	2869.7	2847.9	2824.2	2805.9	2795.9	2795.5
3°	2869.7	2842.9	2815.1	2793.6	2781.3	2780.9
3.5°	2868.8	2837.4	2805.5	2780.4	2766.3	2766.3
4°	2867.9	2831.5	2795.0	2767.2	2751.3	2750.8
4.5°	2866.6	2825.1	2784.5	2753.1	2735.8	2734.9
5°	2864.3	2818.3	2773.1	2739.0	2719.4	2718.5
5.5°	2861.5	2811.0	2761.8	2723.9	2702.5	2702.1
6°	2858.4	2802.8	2749.9	2708.9	2686.1	2684.7
6.5°	2854.7	2794.6	2737.1	2692.9	2668.8	2667.4
7°	2850.6	2785.4	2724.4	2677.0	2651.0	2649.7
7.5°	2845.6	2775.9	2710.7	2660.6	2632.8	2631.9
8°	2840.1	2765.9	2696.6	2643.7	2614.6	2613.7
8.5°	2834.2	2755.4	2682.5	2626.4	2595.9	2594.5
9°	2828.3	2744.4	2667.4	2609.1	2577.2	2575.8
9.5°	2821.4	2733.0	2652.4	2590.9	2557.2	2556.2
10°	2814.2	2721.7	2636.9	2572.7	2538.0	2536.7
10.5°	2805.9	2708.9	2621.0	2554.0	2518.0	2516.6
11°	2797.7	2696.1	2604.1	2534.8	2497.9	2497.0
11.5°	2788.6	2682.9	2587.2	2515.7	2477.4	2476.1
12°	2779.1	2669.3	2570.4	2496.1	2456.5	2455.5
12.5°	2769.5	2655.6	2552.6	2476.1	2435.5	2434.6
13°	2759.0	2640.5	2534.8	2455.5	2414.1	2413.6
13.5°	2748.5	2625.5	2516.6	2435.0	2393.1	2391.8
14°	2736.7	2610.5	2497.9	2414.5	2371.3	2370.8
14.5°	2724.8	2595.0	2479.2	2393.6	2349.4	2348.5
15°	2712.5	2578.6	2460.1	2372.2	2327.1	2327.1
15.5°	2699.8	2562.2	2440.5	2350.7	2304.3	2303.8
16°	2687.0	2545.3	2420.0	2328.9	2281.9	2281.9
16.5°	2672.9	2528.0	2400.0	2307.0	2259.6	2259.6
17°	2659.2	2510.7	2379.5	2284.7	2236.4	2236.8
17.5°	2644.6	2492.9	2358.9	2262.3	2213.6	2213.6
18°	2629.6	2474.2	2338.0	2240.0	2189.9	2190.8
18.5°	2614.6	2456.0	2316.6	2216.8	2167.1	2167.1
19°	2599.1	2436.9	2295.6	2194.0	2143.4	2144.3
19.5°	2583.6	2418.2	2273.7	2171.2	2119.7	2120.6
20°	2566.7	2398.6	2252.3	2148.0	2096.0	2096.9
20.5°	2550.3	2379.0	2230.5	2124.7	2071.9	2072.8
21°	2533.0	2358.9	2208.1	2100.6	2048.2	2049.6

TEST NUMBER: P776680

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2480.2	2297.4	2140.7	2030.4	1975.7	1977.1
23°	2461.9	2276.9	2118.4	2006.3	1951.6	1953.0
23.5°	2443.2	2256.0	2095.6	1982.6	1927.4	1929.3
24°	2424.6	2235.5	2073.2	1959.3	1902.8	1905.1
24.5°	2405.4	2214.5	2050.9	1935.6	1878.7	1880.5
25°	2386.7	2194.0	2028.6	1910.6	1854.5	1855.9
25.5°	2368.1	2172.6	2004.9	1888.3	1830.4	1831.8
26°	2349.4	2151.6	1982.6	1863.2	1806.2	1807.6
26.5°	2330.2	2129.8	1959.8	1840.4	1781.6	1783.5
27°	2310.2	2106.1	1936.1	1816.3	1757.0	1758.8
27.5°	2288.3	2080.5	1911.0	1792.6	1732.9	1734.2
28°	2264.6	2055.9	1886.0	1767.5	1708.7	1709.6
28.5°	2240.0	2029.5	1860.5	1743.8	1684.6	1685.9
29°	2215.0	2004.0	1834.9	1719.2	1660.0	1661.3
29.5°	2189.0	1977.1	1809.4	1694.6	1635.8	1636.7
30°	2161.2	1949.8	1783.0	1668.2	1612.1	1612.6
30.5°	2133.4	1922.0	1756.6	1644.5	1588.0	1588.4
31°	2104.7	1894.2	1729.2	1618.5	1562.9	1563.8
31.5°	2075.5	1865.5	1701.9	1593.0	1538.8	1539.7
32°	2045.0	1836.3	1674.5	1566.6	1514.2	1515.1
32.5°	2014.5	1806.7	1647.2	1542.0	1489.6	1490.9
33°	1983.5	1777.5	1619.4	1516.0	1465.4	1467.2
33.5°	1952.0	1747.5	1591.2	1490.0	1440.8	1443.1
34°	1919.2	1717.8	1563.8	1464.0	1416.2	1418.9
34.5°	1886.0	1685.9	1535.1	1438.1	1391.1	1394.8
35°	1853.2	1656.8	1507.8	1412.1	1366.5	1370.2
35.5°	1819.9	1625.3	1479.1	1386.1	1342.4	1346.9
36°	1786.2	1594.8	1452.2	1360.1	1317.8	1323.2
36.5°	1751.1	1563.8	1423.9	1334.6	1293.2	1299.1
37°	1715.6	1532.8	1396.6	1308.7	1268.6	1274.5
37.5°	1680.5	1501.9	1367.9	1283.6	1244.4	1250.8
38°	1644.9	1470.0	1341.0	1257.2	1219.3	1226.6
38.5°	1609.4	1438.5	1312.8	1231.6	1195.2	1202.5
39°	1573.4	1407.5	1285.0	1206.6	1170.6	1178.8
39.5°	1537.4	1376.5	1256.7	1181.1	1146.4	1154.6
40°	1501.4	1344.7	1228.9	1154.6	1122.3	1130.5
40.5°	1465.4	1313.2	1200.7	1128.7	1098.1	1106.8
41°	1429.9	1281.8	1172.4	1103.2	1074.4	1082.6
41.5°	1393.4	1250.8	1144.6	1078.1	1050.3	1059.0
42°	1358.3	1219.8	1117.7	1053.5	1026.6	1034.8
42.5°	1322.8	1188.8	1090.4	1029.3	1003.4	1011.6
43°	1287.7	1157.8	1063.5	1004.7	980.1	987.9
43.5°	1252.6	1126.8	1037.1	980.6	956.9	964.2

TEST NUMBER: P776680

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1151.9	1036.2	959.2	909.0	886.7	894.5
45.5°	1119.1	1007.0	933.2	885.8	863.5	871.2
46°	1087.2	978.8	908.6	863.0	841.1	848.9
46.5°	1054.9	950.0	883.5	839.8	818.4	826.1
47°	1023.0	922.7	858.9	817.5	796.5	803.3
47.5°	992.9	894.9	834.3	795.1	775.1	781.0
48°	963.3	868.0	809.7	772.3	753.7	758.7
48.5°	934.1	842.1	785.6	750.5	731.8	736.8
49°	905.9	816.1	762.8	729.1	711.3	715.4
49.5°	877.6	791.9	740.0	707.2	690.8	694.0
50°	851.2	766.9	717.2	686.2	669.8	672.6
50.5°	824.3	742.7	694.4	665.3	649.3	652.0
51°	798.3	719.5	672.6	644.3	630.2	631.5
51.5°	774.2	697.2	651.6	623.8	610.6	611.5
52°	750.5	674.8	631.1	604.7	591.4	591.9
52.5°	726.3	653.0	610.6	585.1	572.3	572.8
53°	703.5	632.0	590.5	565.5	553.6	554.1
53.5°	681.2	611.5	570.9	546.3	534.9	535.4
54°	659.8	591.4	551.8	527.7	516.7	518.1
54.5°	638.4	572.3	533.6	509.4	498.9	500.8
55°	618.8	553.6	515.8	491.7	482.1	483.9
55.5°	598.7	535.4	497.6	474.3	464.8	467.5
56°	579.6	517.6	480.7	457.5	448.8	452.5
56.5°	560.9	500.3	463.9	441.1	432.4	437.4
57°	543.1	483.5	447.5	425.1	416.9	423.3
57.5°	525.4	467.1	432.0	409.6	402.3	409.6
58°	508.5	451.1	416.5	395.1	388.2	397.8
58.5°	491.7	436.1	401.9	380.5	375.0	385.9
59°	475.3	421.0	387.3	366.8	362.2	375.5
59.5°	459.8	406.4	373.6	353.6	350.4	365.9
60°	444.3	392.3	360.0	340.4	339.5	358.6
60.5°	429.7	378.2	346.3	328.1	329.0	350.9
61°	415.6	365.0	334.0	316.2	319.0	342.7
61.5°	401.0	351.8	321.2	304.8	310.3	334.5
62°	387.8	339.5	309.4	294.4	302.6	325.8
62.5°	374.1	326.7	298.0	283.9	294.8	317.1
63°	360.9	314.4	286.2	273.4	287.1	308.5
63.5°	347.2	302.6	275.2	263.8	279.3	300.3
64°	335.4	291.2	264.7	254.7	271.6	291.6
64.5°	323.1	280.2	254.7	246.1	263.8	283.4
65°	310.8	269.3	244.7	237.4	256.5	275.2
65.5°	298.9	258.4	234.7	229.2	249.2	267.0
66°	287.5	247.9	225.6	221.5	241.5	258.8



TEST NUMBER: P776680

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	254.3	218.3	199.1	200.5	220.1	235.1
68°	243.3	209.1	190.9	194.1	212.8	227.8
68.5°	233.3	200.0	183.2	188.2	205.5	220.1
69°	223.3	191.4	175.4	181.8	198.7	212.8
69.5°	213.2	182.7	168.1	175.9	191.4	205.0
70°	203.7	174.1	161.8	170.0	185.0	197.8
70.5°	194.1	166.3	154.9	163.6	178.2	190.5
71°	185.5	159.0	148.5	157.7	171.3	183.6
71.5°	176.3	151.3	142.2	152.2	164.5	176.8
72°	167.2	144.0	135.3	146.7	158.1	170.0
72.5°	159.0	136.7	129.4	141.3	152.2	164.5
73°	150.8	129.4	123.5	135.8	145.8	157.7
73.5°	142.6	122.1	118.0	129.9	139.9	151.3
74°	134.4	115.7	112.5	124.4	133.5	144.4
74.5°	127.1	109.4	107.5	118.9	127.6	137.6
75°	119.8	103.4	102.5	113.5	121.7	131.2
75.5°	112.5	97.5	97.5	108.4	115.7	125.3
76°	105.7	91.6	92.5	103.0	109.8	118.9
76.5°	98.9	86.1	87.9	97.5	104.3	113.0
77°	92.5	80.7	83.4	92.5	98.4	107.1
77.5°	86.1	75.6	78.8	87.5	93.0	101.2
78°	80.2	70.6	74.3	82.5	87.5	95.2
78.5°	73.8	65.6	69.7	77.5	82.0	89.8
79°	68.3	60.6	65.6	72.4	76.6	83.8
79.5°	62.9	56.0	61.1	67.4	71.1	78.4
80°	57.4	51.9	57.0	62.9	66.1	72.9
80.5°	52.4	47.8	52.9	58.3	60.6	67.9
81°	47.4	43.7	48.8	53.8	55.6	62.4
81.5°	42.8	39.6	44.2	49.2	50.6	57.0
82°	38.7	35.5	40.6	44.7	45.6	51.9
82.5°	34.2	31.9	36.5	40.1	40.6	46.9
83°	29.6	28.3	32.4	36.0	35.5	41.9
83.5°	25.5	24.6	28.7	31.9	31.0	37.4
84°	21.4	21.0	24.6	27.8	26.4	32.4
84.5°	17.8	17.8	21.0	24.1	22.3	27.3
85°	14.6	14.6	17.3	20.0	18.7	22.8
85.5°	10.9	11.4	13.7	16.4	15.9	18.2
86°	8.2	7.7	10.0	13.2	13.2	15.5
86.5°	5.5	4.6	6.8	9.6	10.5	12.8
87°	2.7	1.8	3.2	6.4	7.7	10.0
87.5°	0.9	0.5	0.9	2.7	5.0	6.8
88°	0.0	0.0	0.0	0.5	2.7	5.0
88.5°	0.0	0.0	0.0	0.0	0.9	2.7



TEST NUMBER: P776680

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRH-HCD62TRLWW-5000lm-2700K

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



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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	2025.4	2075.1	2169.4	2302.4	2473.3	2635.1	2770.0	2848.8	2857.9	2798.2	2677.5
22°	2001.7	2051.8	2147.1	2281.9	2454.6	2618.2	2755.8	2836.0	2845.6	2785.0	2662.9



44°	940.9	993.3	1078.5	1182.9	1319.1	1444.4	1536.0	1566.1	1534.7	1455.4	1342.4
44.5°	917.7	970.6	1053.9	1156.0	1288.6	1408.0	1495.9	1524.6	1494.1	1415.3	1305.5



66.5°	250.6	263.8	266.1	288.9	329.0	363.6	398.2	418.3	410.1	377.7	326.3
67°	242.9	256.1	257.9	278.4	316.7	350.4	385.0	404.6	396.0	364.1	314.4



89°	1.4	5.0	11.8	13.7	13.7	10.9	6.4	2.3	0.5	0.0	0.0
89.5°	0.0	2.7	8.2	10.0	10.5	7.7	4.1	0.9	0.0	0.0	0.0

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21.5°	2516.2	2338.4	2184.9	2077.4	2023.6	2025.4
22°	2497.9	2318.4	2163.5	2054.1	1999.9	2001.7

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44°	1218.4	1096.3	1011.1	956.0	933.2	940.9
44.5°	1185.2	1066.7	985.1	932.7	910.0	917.7



66.5°	276.1	237.9	216.4	214.2	234.2	250.6
67°	264.7	228.3	207.8	207.3	226.9	242.9

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89°	0.0	0.0	0.0	0.0	0.5	1.4
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)