

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: P776725

Luminaire Tested: HCDJBL54050CSD-HCD6TSQH-5000lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776725  
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: HCDJBL54050CSD-HCD6TSQH-5000lm-2700K  
Description: 6 INCH SQUARE MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4503.3 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

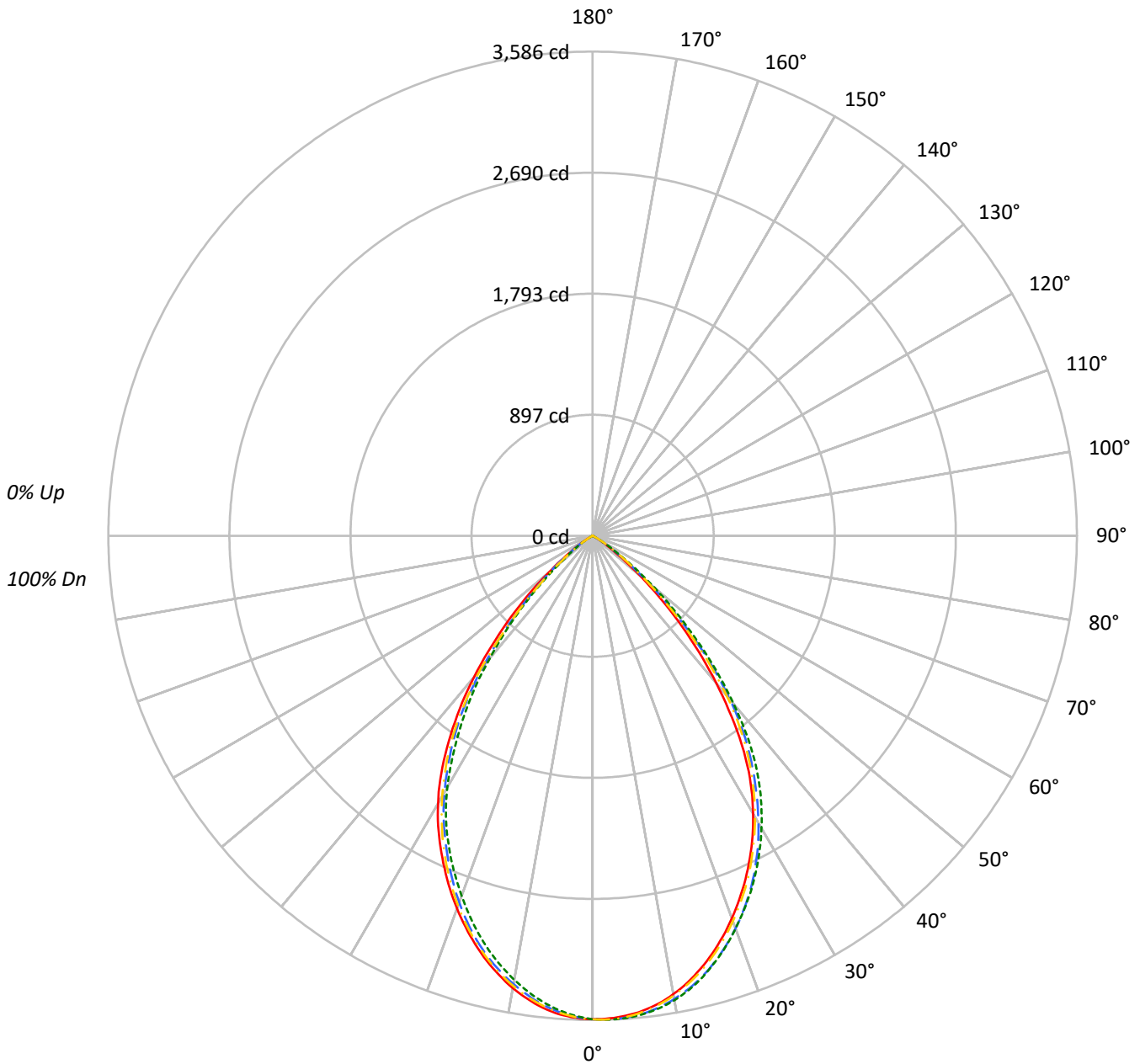
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

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

	0°	90°	180°	270°
0°	196300	196300	196300	196300
5°	195432	196621	194546	192581
10°	191902	194435	189347	185957
15°	185160	188928	181443	176897
20°	175884	180598	171328	165489
25°	164514	170683	159239	152664
30°	150454	158278	144934	136312
35°	130641	141937	124156	112913
40°	101841	116025	97876	84816
45°	69829	84218	67154	54525
50°	38455	50907	36783	26780
55°	14700	22355	15904	11402
60°	1941	5723	3826	1502
65°	259	454	350	259
70°	64	128	128	128
75°	85	85	85	85
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 84218 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.3	7.4
10°-20°	906.3	20.1
20°-30°	1225.9	27.2
30°-40°	1177.0	26.1
40°-50°	685.4	15.2
50°-60°	168.7	3.7
60°-70°	5.4	0.1
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°	2466.5	54.8
0°-40°	3643.4	80.9
0°-60°	4497.6	99.9
0°-90°	4503.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4503.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3581	3581	3581	3581	3581	
5°	3551	3573	3535	3500	3551	336
15°	3262	3329	3197	3117	3262	915
25°	2720	2822	2633	2524	2720	1246
35°	1952	2121	1855	1687	1952	1201
45°	901	1086	866	703	901	696
55°	154	234	166	119	154	159
65°	2	4	3	2	2	4
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°	3580.8	3580.8	3580.8	3580.8	3580.8	3580.8	3580.8	3580.8	3580.8	3580.8	3580.8
0.5°	3580.0	3580.4	3583.2	3585.5	3582.0	3583.6	3584.4	3582.8	3579.3	3577.7	3578.1
1°	3579.3	3580.8	3584.8	3587.5	3584.4	3585.1	3585.1	3582.4	3577.7	3574.5	3574.9
1.5°	3578.1	3580.8	3585.1	3588.7	3585.5	3586.3	3584.8	3581.2	3576.1	3571.4	3570.6
2°	3576.1	3580.4	3585.1	3588.7	3586.3	3586.3	3584.4	3579.3	3572.2	3567.5	3565.5
2.5°	3576.1	3578.9	3584.0	3587.9	3585.5	3585.1	3582.4	3576.5	3569.1	3562.4	3559.2
3°	3570.2	3576.5	3582.8	3586.7	3584.8	3584.0	3579.7	3572.2	3563.6	3556.5	3552.2
3.5°	3566.7	3573.8	3580.4	3584.8	3582.8	3580.8	3576.1	3567.9	3558.1	3549.8	3545.5
4°	3562.4	3570.6	3577.3	3582.0	3580.0	3578.1	3572.2	3562.0	3551.8	3542.8	3536.1
4.5°	3556.9	3566.7	3573.4	3578.5	3576.9	3574.2	3566.7	3555.7	3544.7	3533.7	3527.1
5°	3551.4	3561.6	3569.1	3574.5	3573.0	3569.4	3560.8	3548.6	3535.3	3524.3	3516.9
5.5°	3546.3	3555.7	3564.3	3569.4	3568.7	3564.3	3553.7	3540.4	3525.5	3514.1	3505.5
6°	3537.3	3549.0	3558.5	3564.0	3563.6	3558.1	3545.9	3530.6	3515.3	3503.1	3493.7
6.5°	3529.4	3542.4	3551.8	3558.1	3557.3	3551.0	3538.4	3520.0	3503.9	3491.3	3480.4
7°	3520.4	3534.1	3543.9	3551.4	3550.6	3543.9	3528.6	3509.4	3492.1	3478.4	3467.8
7.5°	3510.2	3525.1	3535.7	3543.2	3542.8	3535.7	3518.8	3496.8	3478.4	3464.3	3452.9
8°	3499.2	3515.3	3527.1	3534.1	3534.5	3527.1	3508.2	3484.3	3464.7	3449.7	3438.4
8.5°	3487.8	3504.7	3517.2	3524.7	3525.5	3516.9	3496.4	3470.9	3450.1	3434.8	3422.3
9°	3475.3	3492.9	3507.0	3514.5	3515.3	3506.3	3484.7	3456.8	3434.4	3419.1	3407.0
9.5°	3461.5	3481.1	3495.3	3503.5	3504.7	3495.3	3470.9	3441.5	3419.1	3402.3	3389.7
10°	3447.4	3468.2	3483.9	3491.7	3492.9	3482.7	3457.2	3426.2	3401.5	3385.4	3372.0
10.5°	3432.1	3454.1	3470.9	3479.2	3480.0	3469.8	3442.7	3409.3	3384.2	3367.7	3354.0
11°	3416.4	3439.9	3458.4	3465.8	3466.6	3455.2	3427.4	3392.4	3365.8	3349.3	3335.5
11.5°	3399.9	3424.6	3443.5	3451.3	3452.1	3440.7	3411.7	3374.8	3346.1	3330.4	3316.3
12°	3381.5	3408.5	3429.3	3436.0	3436.8	3424.6	3394.4	3356.3	3326.9	3310.8	3296.3
12.5°	3363.4	3391.7	3412.9	3420.7	3420.7	3408.1	3376.7	3337.5	3306.9	3290.4	3276.3
13°	3345.0	3374.8	3397.2	3405.0	3405.0	3391.3	3359.5	3318.3	3286.5	3269.6	3255.5
13.5°	3324.9	3355.9	3379.9	3387.0	3386.2	3372.4	3339.9	3297.9	3264.5	3248.4	3233.9
14°	3305.3	3337.5	3361.8	3369.3	3367.7	3354.0	3320.6	3277.1	3242.9	3226.0	3211.5
14.5°	3284.1	3317.5	3343.0	3350.8	3347.7	3333.6	3300.6	3255.1	3220.5	3202.5	3188.8
15°	3262.5	3297.9	3323.4	3331.6	3328.9	3313.6	3279.0	3233.1	3197.0	3178.6	3165.2
15.5°	3240.2	3276.7	3303.4	3312.4	3307.7	3292.8	3257.0	3210.3	3173.1	3155.4	3140.9
16°	3217.4	3254.7	3282.6	3290.8	3286.9	3271.2	3235.5	3187.2	3149.1	3130.7	3115.4
16.5°	3193.9	3232.7	3260.6	3269.6	3264.9	3248.4	3212.3	3163.2	3124.4	3104.8	3089.5
17°	3169.9	3210.0	3239.0	3248.0	3241.7	3225.6	3189.2	3138.9	3098.5	3078.1	3063.2
17.5°	3144.8	3186.8	3216.2	3226.0	3219.0	3202.1	3164.8	3113.0	3073.0	3051.4	3035.3
18°	3120.1	3162.5	3193.1	3202.5	3194.6	3178.2	3140.9	3087.9	3045.5	3023.9	3007.0
18.5°	3094.6	3137.7	3168.7	3178.9	3170.3	3153.8	3115.4	3061.2	3018.8	2995.7	2979.2
19°	3068.3	3112.6	3145.2	3155.0	3146.0	3129.1	3089.5	3034.5	2991.7	2968.2	2949.0
19.5°	3041.6	3086.7	3119.7	3130.3	3121.3	3103.2	3063.2	3007.0	2965.1	2938.4	2918.7
20°	3014.9	3060.8	3095.0	3105.2	3095.7	3076.5	3037.3	2980.4	2936.8	2908.9	2888.5
20.5°	2987.0	3033.3	3069.1	3078.1	3068.7	3050.6	3009.8	2952.1	2908.1	2879.1	2858.3
21°	2959.2	3005.9	3042.8	3052.2	3042.4	3023.5	2981.5	2924.2	2879.9	2849.7	2828.1



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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°	2873.2	2920.3	2960.0	2969.0	2963.9	2939.2	2896.0	2840.3	2790.4	2757.0	2729.6
23°	2843.8	2890.5	2930.9	2940.3	2936.0	2909.3	2867.7	2810.0	2758.6	2724.9	2696.6
23.5°	2814.0	2859.9	2901.5	2910.9	2908.1	2879.5	2839.1	2779.8	2727.6	2691.9	2662.5
24°	2783.0	2829.7	2870.5	2880.7	2880.3	2849.7	2808.5	2749.2	2695.8	2659.3	2628.7
24.5°	2751.6	2798.7	2839.9	2850.5	2852.4	2824.6	2776.7	2718.2	2665.2	2626.4	2594.2
25°	2719.8	2767.3	2808.5	2819.5	2821.8	2793.5	2744.5	2687.2	2632.6	2593.4	2560.8
25.5°	2688.0	2733.9	2776.7	2787.3	2791.2	2761.8	2712.3	2655.0	2600.5	2559.6	2526.3
26°	2656.2	2702.1	2743.7	2755.9	2761.0	2730.8	2679.7	2623.6	2568.3	2526.3	2492.1
26.5°	2622.4	2669.5	2710.0	2723.3	2730.4	2697.8	2646.0	2591.0	2535.7	2492.5	2457.2
27°	2589.5	2635.0	2676.6	2690.3	2699.4	2666.0	2613.0	2558.9	2501.6	2458.8	2422.7
27.5°	2554.9	2600.1	2641.7	2657.0	2666.8	2632.6	2579.7	2525.9	2469.0	2424.2	2387.0
28°	2520.8	2565.1	2605.6	2622.4	2634.2	2599.7	2545.9	2492.1	2434.8	2387.7	2350.1
28.5°	2485.9	2529.8	2569.5	2587.9	2602.0	2565.9	2511.8	2458.8	2400.7	2350.9	2312.0
29°	2450.1	2493.7	2532.6	2552.6	2569.1	2532.2	2476.4	2423.8	2365.0	2314.4	2273.9
29.5°	2413.6	2456.0	2494.5	2516.9	2534.5	2498.4	2441.1	2387.3	2327.7	2276.3	2233.5
30°	2376.8	2418.0	2456.4	2480.4	2500.4	2463.9	2405.0	2350.9	2289.6	2237.8	2193.5
30.5°	2339.1	2379.5	2418.0	2441.9	2465.4	2428.2	2368.5	2312.8	2252.0	2197.4	2152.7
31°	2300.6	2340.3	2377.1	2405.0	2431.3	2392.5	2330.8	2274.7	2211.5	2157.0	2111.1
31.5°	2261.0	2300.2	2338.3	2366.2	2394.4	2356.3	2292.8	2235.5	2170.3	2116.2	2069.1
32°	2219.8	2258.6	2297.1	2326.5	2357.9	2319.5	2254.7	2195.4	2127.9	2074.2	2025.9
32.5°	2179.3	2219.0	2256.3	2286.1	2321.0	2281.4	2215.5	2154.6	2085.2	2031.4	1983.5
33°	2137.0	2177.0	2215.8	2246.5	2283.3	2242.9	2175.8	2111.8	2041.2	1987.0	1941.1
33.5°	2093.4	2135.0	2176.2	2206.0	2243.7	2204.1	2135.8	2068.7	1996.1	1942.7	1898.3
34°	2047.5	2091.8	2134.2	2165.2	2204.9	2164.0	2095.0	2025.1	1950.5	1898.7	1854.8
34.5°	2000.8	2049.4	2092.2	2124.0	2162.5	2122.0	2054.5	1980.4	1902.3	1851.6	1810.0
35°	1952.1	2005.1	2049.4	2080.8	2120.9	2080.4	2012.9	1934.4	1855.2	1804.5	1765.7
35.5°	1903.4	1960.7	2008.6	2038.1	2076.9	2038.5	1971.3	1888.9	1808.5	1757.8	1720.2
36°	1851.2	1916.0	1963.9	1995.3	2033.0	1995.7	1928.6	1843.0	1761.4	1710.4	1673.1
36.5°	1799.0	1868.5	1921.9	1952.5	1985.9	1951.3	1884.2	1796.3	1713.5	1662.1	1624.4
37°	1745.3	1820.2	1877.1	1907.4	1938.0	1905.4	1838.7	1750.0	1664.0	1613.4	1573.4
37.5°	1691.9	1770.0	1831.2	1861.1	1888.5	1858.3	1792.8	1702.1	1617.3	1564.0	1523.5
38°	1636.6	1718.6	1783.3	1811.2	1837.5	1808.9	1744.9	1654.6	1568.3	1513.3	1470.9
38.5°	1584.0	1667.2	1735.5	1764.5	1783.7	1759.0	1696.2	1606.7	1519.6	1462.3	1418.8
39°	1529.0	1613.8	1684.8	1713.5	1730.8	1707.6	1645.6	1558.5	1469.8	1410.9	1366.6
39.5°	1476.1	1560.4	1633.4	1662.5	1676.2	1654.2	1594.2	1508.6	1420.3	1359.1	1312.4
40°	1423.1	1503.9	1579.7	1609.5	1621.3	1598.1	1541.6	1457.6	1367.7	1305.7	1258.2
40.5°	1370.5	1449.0	1527.9	1555.3	1567.1	1542.0	1489.0	1406.6	1316.3	1253.1	1202.9
41°	1317.1	1397.2	1474.9	1500.0	1512.9	1484.7	1432.5	1355.2	1263.7	1200.9	1148.0
41.5°	1264.5	1343.4	1420.7	1445.0	1460.7	1428.2	1377.2	1304.5	1211.1	1151.1	1093.8
42°	1211.5	1289.2	1365.0	1412.5	1407.4	1371.3	1321.0	1250.8	1158.2	1098.9	1040.4
42.5°	1158.5	1235.5	1309.3	1352.8	1356.0	1314.7	1265.7	1197.8	1109.1	1048.3	989.0
43°	1104.8	1181.3	1253.5	1292.0	1303.8	1259.0	1210.7	1143.6	1058.5	998.0	939.6
43.5°	1052.2	1129.1	1198.2	1231.5	1248.4	1204.5	1155.8	1091.0	1011.0	948.6	890.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	900.7	972.5	1030.6	1062.8	1086.3	1042.8	992.5	933.7	866.2	804.2	753.1
45.5°	852.8	920.3	975.7	1010.6	1033.0	988.6	939.2	884.6	818.7	758.2	710.0
46°	803.4	869.7	921.1	958.4	981.5	936.8	887.4	834.0	772.4	712.7	668.0
46.5°	754.7	819.5	866.9	906.6	931.7	885.8	835.2	784.9	725.3	670.7	627.5
47°	707.2	769.6	815.1	854.4	881.9	835.9	784.9	735.1	679.7	627.2	587.9
47.5°	660.9	720.6	765.3	803.8	832.4	787.3	735.9	688.0	635.8	587.1	550.6
48°	615.8	673.1	716.2	753.9	783.7	741.4	688.4	640.5	593.4	547.9	514.9
48.5°	572.6	627.2	668.0	705.6	735.9	697.0	642.9	595.4	551.8	511.4	481.2
49°	530.2	582.0	622.4	658.2	688.4	652.7	598.1	551.0	510.2	474.9	448.6
49.5°	489.4	538.1	577.7	612.2	641.3	609.9	556.9	509.0	470.2	440.3	416.4
50°	450.9	494.5	534.5	565.9	596.9	567.1	516.1	469.0	431.3	407.8	387.0
50.5°	412.9	452.1	492.1	522.0	553.4	526.7	477.6	430.9	394.8	379.1	359.9
51°	377.2	412.9	452.9	479.6	511.0	487.0	441.1	395.2	363.0	350.9	332.8
51.5°	341.8	375.6	414.4	439.6	471.3	449.4	406.2	365.0	331.6	322.2	306.1
52°	308.9	340.7	378.3	401.5	432.9	412.5	377.2	334.8	299.8	294.0	279.0
52.5°	277.5	306.9	343.0	364.2	395.6	381.1	347.7	304.2	268.4	265.7	253.9
53°	248.4	276.3	310.4	329.3	362.2	349.3	318.3	273.9	243.7	241.4	231.6
53.5°	221.0	248.0	278.6	296.7	328.9	317.9	288.9	248.4	221.3	219.4	209.6
54°	196.6	221.7	250.0	266.9	295.1	286.1	259.4	225.3	201.3	198.6	189.6
54.5°	174.3	197.0	221.7	238.6	262.2	254.7	235.5	204.1	183.3	178.6	169.2
55°	153.8	175.0	196.6	213.1	233.9	230.4	212.7	185.2	166.4	160.5	150.7
55.5°	134.2	153.5	172.7	189.2	208.4	205.3	191.1	166.4	149.9	142.5	132.7
56°	118.9	133.8	151.5	166.8	184.8	183.3	170.3	149.5	134.2	126.0	116.2
56.5°	103.2	118.1	133.0	145.6	163.3	162.1	150.7	133.4	119.3	110.3	100.5
57°	87.9	102.8	117.0	128.7	143.2	142.5	132.7	117.7	104.8	95.8	86.3
57.5°	72.6	87.1	100.5	112.2	124.0	123.6	115.4	102.8	91.4	82.4	73.0
58°	58.1	71.4	84.4	95.4	106.7	106.4	99.7	89.1	78.5	68.7	58.5
58.5°	44.0	56.1	68.3	78.9	91.1	90.7	85.2	75.7	64.8	58.5	49.8
59°	32.2	42.4	53.0	62.4	75.7	76.5	70.6	61.2	54.9	48.3	40.8
59.5°	23.5	31.0	38.9	46.7	64.0	65.9	59.7	51.8	45.1	37.7	32.2
60°	17.7	22.4	28.3	34.1	52.2	55.3	49.1	42.4	34.9	27.5	23.5
60.5°	13.0	16.9	20.4	24.3	40.4	44.7	38.1	33.0	25.1	17.3	14.5
61°	11.0	14.5	15.3	18.1	28.6	34.1	27.1	23.5	15.7	13.3	11.4
61.5°	9.0	12.2	13.0	13.3	16.9	23.5	16.5	14.1	11.8	10.6	9.0
62°	7.1	9.8	10.6	11.4	12.6	13.0	12.6	10.6	9.0	8.2	7.5
62.5°	5.1	7.5	8.2	9.4	9.8	9.8	9.4	8.6	7.1	6.7	5.9
63°	4.3	5.5	6.3	7.5	7.8	7.8	7.5	6.7	5.9	5.5	5.1
63.5°	3.5	4.3	5.1	5.5	6.3	6.3	5.9	5.5	4.7	4.7	4.3
64°	2.7	3.5	4.3	4.7	5.1	5.1	5.1	4.7	3.9	3.9	3.5
64.5°	2.4	3.1	3.5	3.9	4.3	4.3	3.9	3.9	3.1	3.1	3.1
65°	2.0	2.7	3.1	3.1	3.5	3.5	3.5	3.1	2.7	2.7	2.7
65.5°	2.0	2.4	2.4	2.7	3.1	2.7	2.7	2.7	2.4	2.4	2.4
66°	1.6	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.0	2.0	2.0





TEST NUMBER: P776725

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.2	1.2	1.2
68°	0.8	1.2	1.2	1.2	1.6	1.2	1.6	1.2	1.2	1.2	1.2
68.5°	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
69°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8
69.5°	0.8	0.8	0.8	0.8	1.2	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71.5°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4
72°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
76°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
76.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4
77°	0.0	0.0	0.0	0.4	0.4	0.4	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: P776725

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P776725

CATALOG NUMBER: HCDJBL4050CSD-HCD6TSQH-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3580.8	3580.8	3580.8	3580.8	3580.8	3580.8
0.5°	3579.7	3575.3	3577.7	3579.7	3580.8	3580.0
1°	3575.7	3570.6	3573.4	3576.5	3578.5	3579.3
1.5°	3570.6	3565.1	3568.7	3572.2	3576.5	3578.1
2°	3564.3	3558.5	3562.4	3567.5	3572.2	3576.1
2.5°	3557.7	3551.0	3554.9	3562.0	3568.3	3576.1
3°	3549.8	3542.4	3547.5	3554.9	3564.3	3570.2
3.5°	3541.2	3532.9	3538.4	3548.3	3558.9	3566.7
4°	3532.2	3523.1	3529.0	3540.4	3553.4	3562.4
4.5°	3522.0	3511.8	3518.8	3531.8	3546.3	3556.9
5°	3510.6	3499.6	3507.4	3522.0	3538.8	3551.4
5.5°	3498.4	3487.4	3495.3	3511.8	3530.2	3546.3
6°	3485.5	3474.1	3483.1	3501.2	3521.6	3537.3
6.5°	3471.7	3459.2	3469.4	3489.0	3511.8	3529.4
7°	3457.6	3445.0	3455.2	3476.4	3501.6	3520.4
7.5°	3442.3	3428.9	3440.3	3463.9	3490.2	3510.2
8°	3427.0	3412.1	3425.0	3449.7	3478.0	3499.2
8.5°	3410.5	3394.8	3408.5	3434.8	3464.3	3487.8
9°	3394.0	3377.5	3391.3	3419.5	3450.5	3475.3
9.5°	3375.6	3359.1	3374.0	3403.0	3435.6	3461.5
10°	3357.5	3340.6	3355.6	3386.6	3420.3	3447.4
10.5°	3338.3	3320.2	3337.1	3368.9	3404.2	3432.1
11°	3318.7	3299.8	3317.5	3350.1	3387.3	3416.4
11.5°	3298.6	3279.4	3297.1	3330.8	3369.7	3399.9
12°	3277.5	3257.4	3276.3	3311.2	3350.8	3381.5
12.5°	3256.3	3235.9	3255.1	3290.4	3331.6	3363.4
13°	3233.9	3213.1	3232.7	3269.6	3312.4	3345.0
13.5°	3211.1	3189.9	3209.6	3247.6	3291.6	3324.9
14°	3187.2	3166.4	3186.0	3226.0	3270.8	3305.3
14.5°	3162.9	3142.1	3162.1	3203.3	3248.8	3284.1
15°	3137.7	3116.9	3137.3	3179.7	3227.6	3262.5
15.5°	3113.4	3090.6	3111.8	3155.4	3203.7	3240.2
16°	3087.1	3065.1	3086.3	3131.5	3180.5	3217.4
16.5°	3060.8	3037.7	3059.6	3107.1	3157.0	3193.9
17°	3033.3	3011.0	3033.0	3081.6	3132.6	3169.9
17.5°	3006.7	2982.7	3005.5	3054.5	3106.3	3144.8
18°	2979.2	2954.1	2978.0	3027.8	3080.4	3120.1
18.5°	2950.5	2925.0	2950.1	3000.4	3054.1	3094.6
19°	2922.3	2896.8	2920.7	2972.1	3026.7	3068.3
19.5°	2893.6	2867.3	2892.4	2944.3	2999.2	3041.6
20°	2865.0	2836.7	2863.8	2914.8	2970.9	3014.9
20.5°	2836.7	2806.9	2834.4	2885.0	2941.5	2987.0
21°	2806.1	2776.7	2804.5	2855.2	2912.1	2959.2



TEST NUMBER: P776725

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2712.3	2684.8	2712.3	2760.6	2819.8	2873.2
23°	2680.1	2653.0	2680.1	2728.4	2788.1	2843.8
23.5°	2648.3	2621.6	2649.5	2696.2	2755.9	2814.0
24°	2615.4	2589.5	2616.5	2663.3	2722.9	2783.0
24.5°	2582.4	2557.3	2584.8	2629.5	2690.7	2751.6
25°	2549.4	2523.9	2551.4	2595.7	2657.8	2719.8
25.5°	2515.7	2491.0	2518.4	2562.0	2624.0	2688.0
26°	2482.7	2457.6	2483.5	2526.3	2590.6	2656.2
26.5°	2448.2	2423.1	2448.2	2492.1	2556.5	2622.4
27°	2412.9	2387.7	2412.5	2454.9	2522.0	2589.5
27.5°	2376.8	2352.4	2375.6	2418.4	2486.6	2554.9
28°	2339.9	2313.6	2336.7	2381.1	2450.5	2520.8
28.5°	2301.4	2275.1	2299.8	2343.4	2414.0	2485.9
29°	2262.9	2235.5	2260.2	2305.3	2377.1	2450.1
29.5°	2223.7	2195.4	2219.8	2265.7	2339.5	2413.6
30°	2182.9	2153.4	2178.6	2226.4	2301.8	2376.8
30.5°	2141.3	2108.7	2137.0	2186.0	2262.2	2339.1
31°	2098.9	2064.0	2093.0	2145.6	2222.5	2300.6
31.5°	2055.7	2018.4	2049.0	2105.6	2182.5	2261.0
32°	2012.2	1971.7	2003.1	2062.4	2142.1	2219.8
32.5°	1966.6	1925.4	1957.6	2021.2	2100.9	2179.3
33°	1920.3	1877.1	1910.9	1978.8	2057.7	2137.0
33.5°	1873.2	1829.7	1864.2	1936.0	2014.9	2093.4
34°	1825.7	1782.2	1817.9	1891.7	1970.6	2047.5
34.5°	1777.1	1734.3	1770.4	1845.0	1926.2	2000.8
35°	1729.2	1687.2	1722.1	1798.3	1879.1	1952.1
35.5°	1680.9	1639.7	1675.8	1750.4	1832.4	1903.4
36°	1631.5	1593.0	1628.7	1701.7	1781.8	1851.2
36.5°	1582.4	1545.5	1581.2	1651.9	1730.4	1799.0
37°	1532.6	1497.2	1533.0	1596.9	1677.4	1745.3
37.5°	1482.3	1447.8	1483.9	1545.5	1625.6	1691.9
38°	1431.7	1399.1	1433.3	1491.0	1569.1	1636.6
38.5°	1379.5	1345.8	1380.7	1438.4	1513.3	1584.0
39°	1328.9	1292.4	1328.1	1408.2	1455.6	1529.0
39.5°	1277.1	1238.6	1275.5	1346.9	1390.5	1476.1
40°	1224.9	1185.2	1222.5	1285.3	1336.3	1423.1
40.5°	1173.1	1133.8	1169.9	1224.1	1282.2	1370.5
41°	1121.7	1084.4	1115.0	1162.9	1228.4	1317.1
41.5°	1072.6	1035.3	1062.0	1108.7	1174.2	1264.5
42°	1020.8	987.8	1010.2	1054.2	1119.7	1211.5
42.5°	971.0	939.6	960.4	1000.4	1066.3	1158.5
43°	921.9	892.1	910.9	947.0	1011.8	1104.8
43.5°	872.1	844.2	860.3	894.8	959.2	1052.2



TEST NUMBER: P776725

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	733.5	703.3	714.7	743.7	810.4	900.7
45.5°	689.2	659.3	666.8	696.6	764.5	852.8
46°	646.0	616.2	621.3	651.5	719.0	803.4
46.5°	606.0	572.6	576.5	607.9	675.8	754.7
47°	564.4	531.4	534.1	565.5	631.9	707.2
47.5°	526.3	491.0	493.7	525.5	591.0	660.9
48°	489.8	452.1	454.5	487.0	549.4	615.8
48.5°	454.5	414.0	418.0	450.5	509.8	572.6
49°	421.1	379.1	383.0	416.0	470.6	530.2
49.5°	389.3	345.4	350.1	382.7	434.1	489.4
50°	361.1	314.0	320.2	351.6	397.6	450.9
50.5°	333.2	285.7	291.6	321.8	363.8	412.9
51°	304.9	260.2	266.1	294.3	332.0	377.2
51.5°	277.1	237.0	242.1	267.7	301.8	341.8
52°	253.1	216.2	220.6	243.7	273.5	308.9
52.5°	230.0	197.4	200.2	221.0	246.9	277.5
53°	208.0	179.4	182.1	199.0	221.3	248.4
53.5°	188.4	162.9	164.4	178.2	197.8	221.0
54°	169.5	147.2	148.0	159.3	176.2	196.6
54.5°	151.5	133.0	133.8	141.3	156.2	174.3
55°	135.0	119.3	119.7	126.4	136.2	153.8
55.5°	118.5	105.6	106.0	111.5	120.9	134.2
56°	103.6	91.8	91.8	96.5	105.6	118.9
56.5°	89.9	78.1	77.7	82.0	90.3	103.2
57°	76.9	64.0	63.6	67.1	75.0	87.9
57.5°	62.8	49.8	49.8	52.6	60.4	72.6
58°	53.4	38.1	37.7	40.0	46.3	58.1
58.5°	44.0	28.6	27.9	29.4	34.5	44.0
59°	34.5	21.2	20.8	22.0	25.5	32.2
59.5°	25.1	16.1	15.7	16.5	18.8	23.5
60°	15.7	13.7	13.3	14.1	14.1	17.7
60.5°	12.2	11.0	11.0	11.8	12.2	13.0
61°	9.8	8.6	8.2	9.8	9.8	11.0
61.5°	7.8	6.3	5.9	7.5	7.8	9.0
62°	6.3	5.1	5.1	5.1	5.9	7.1
62.5°	5.1	4.3	3.9	4.3	4.7	5.1
63°	4.3	3.5	3.5	3.5	3.9	4.3
63.5°	3.5	3.1	2.7	2.7	3.1	3.5
64°	3.1	2.7	2.4	2.4	2.7	2.7
64.5°	2.7	2.4	2.0	2.0	2.4	2.4
65°	2.4	2.0	1.6	2.0	2.0	2.0
65.5°	2.0	1.6	1.6	1.6	1.6	2.0
66°	1.6	1.6	1.2	1.2	1.6	1.6



TEST NUMBER: P776725

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.2	0.8	0.8	1.2	1.2
68°	1.2	0.8	0.8	0.8	0.8	0.8
68.5°	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8	0.8
69.5°	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.4	0.4
70.5°	0.8	0.4	0.4	0.4	0.4	0.4
71°	0.4	0.4	0.4	0.4	0.4	0.4
71.5°	0.4	0.4	0.4	0.4	0.4	0.4
72°	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4
73°	0.4	0.4	0.4	0.4	0.4	0.4
73.5°	0.4	0.4	0.4	0.4	0.4	0.4
74°	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.0	0.0	0.4
75.5°	0.4	0.0	0.0	0.0	0.0	0.0
76°	0.4	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: P776725

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQH-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

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

Scaled Data Report



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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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Peachtree City, GA 30269

Scaled Data Report





21.5°	2930.5	2977.6	3016.1	3025.1	3016.5	2996.1	2953.3	2896.4	2851.6	2820.2	2795.5
22°	2902.3	2949.4	2987.8	2997.2	2989.8	2969.0	2924.6	2868.1	2820.6	2788.8	2763.3



44°	1000.0	1076.5	1142.5	1170.3	1193.9	1150.7	1100.1	1036.9	960.7	898.7	843.8
44.5°	949.8	1024.7	1086.3	1116.6	1139.7	1096.9	1047.1	985.1	914.8	852.0	799.1



66.5°	1.2	1.6	2.0	2.0	2.0	2.0	2.0	2.0	1.6	1.6	1.6
67°	1.2	1.6	1.6	1.6	2.0	2.0	2.0	1.6	1.6	1.6	1.6



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°	2774.7	2746.5	2773.9	2823.8	2881.5	2930.5
22°	2743.7	2715.4	2743.3	2792.8	2850.8	2902.3



44°	825.0	795.9	810.8	843.4	908.9	1000.0
44.5°	779.4	748.8	762.9	793.2	859.5	949.8



66.5°	1.6	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2	1.2

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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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)