

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



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: P776703

Luminaire Tested: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776703
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-HCD6TRH-5000lm-4000K
Description: 6 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

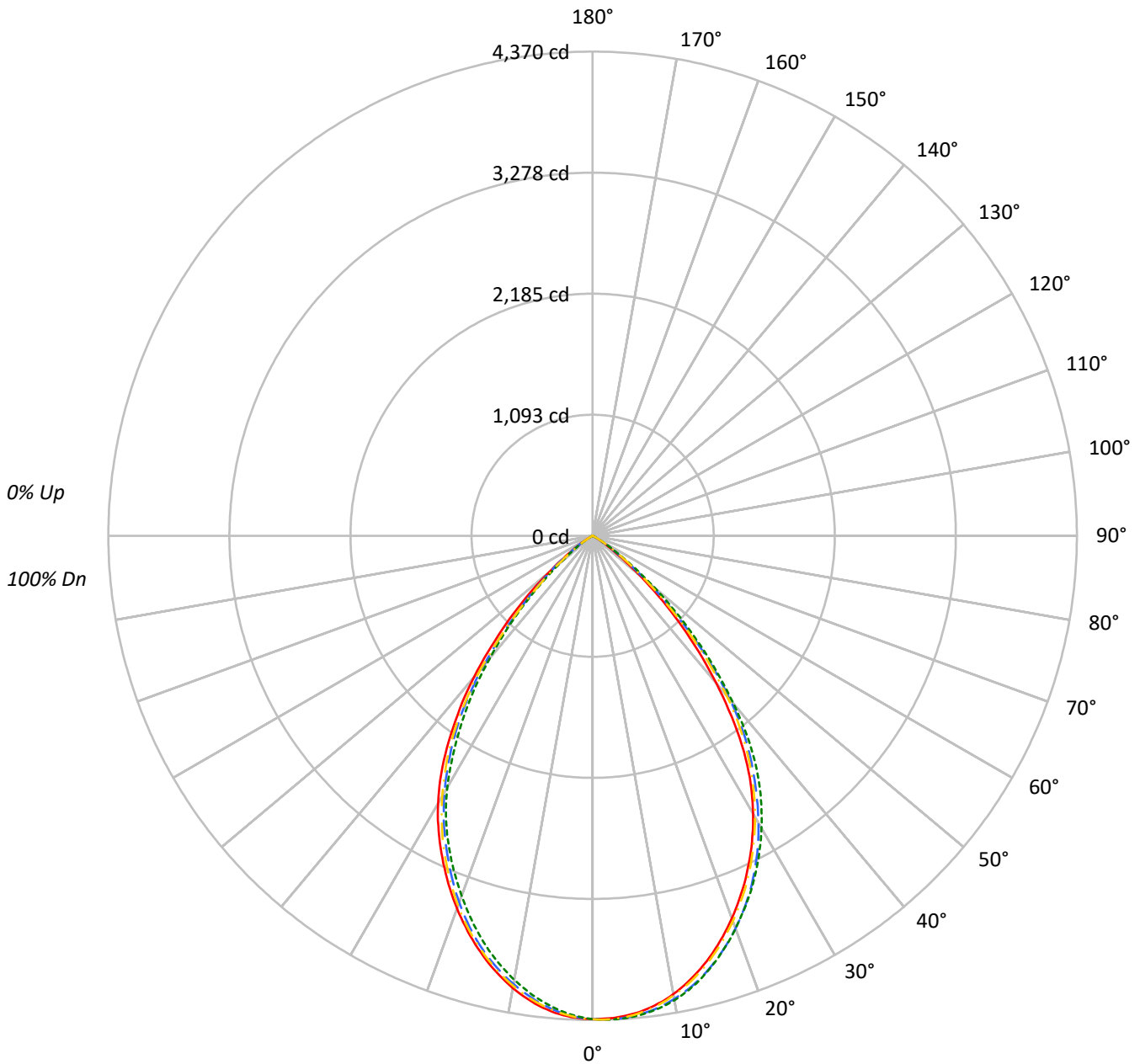
Lumens per Lamp: N/A
Luminaire Lumens: 5487.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{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										
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°	239197	239197	239197	239197
5°	238135	239582	237056	234663
10°	233836	236919	230718	226593
15°	225620	230206	221091	215552
20°	214318	220064	208764	201653
25°	200461	207980	194037	186023
30°	183326	192859	176603	166102
35°	159190	172949	151280	137587
40°	124090	141372	119266	103351
45°	85086	102623	81822	66441
50°	46864	62036	44826	32630
55°	17921	27239	19383	13897
60°	2357	6973	4671	1831
65°	311	558	428	311
70°	80	160	160	160
75°	106	106	106	106
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 102623 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	7.4
10°-20°	1104.3	20.1
20°-30°	1493.8	27.2
30°-40°	1434.1	26.1
40°-50°	835.2	15.2
50°-60°	205.6	3.7
60°-70°	6.6	0.1
70°-80°	0.4	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°	3005.4	54.8
0°-40°	4439.6	80.9
0°-60°	5480.3	99.9
0°-90°	5487.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5487.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4363	4363	4363	4363	4363	
5°	4327	4354	4308	4264	4327	409
15°	3975	4056	3896	3798	3975	1115
25°	3314	3438	3208	3075	3314	1518
35°	2379	2584	2260	2056	2379	1464
45°	1098	1324	1055	857	1098	848
55°	188	285	203	145	188	193
65°	2	4	3	2	2	5
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°	4363.3	4363.3	4363.3	4363.3	4363.3	4363.3	4363.3	4363.3	4363.3	4363.3	4363.3
0.5°	4362.3	4362.8	4366.1	4369.0	4364.7	4366.6	4367.6	4365.7	4361.3	4359.4	4359.9
1°	4361.3	4363.3	4368.0	4371.4	4367.6	4368.5	4368.5	4365.2	4359.4	4355.6	4356.1
1.5°	4359.9	4363.3	4368.5	4372.8	4369.0	4370.0	4368.0	4363.7	4357.5	4351.8	4350.8
2°	4357.5	4362.8	4368.5	4372.8	4370.0	4370.0	4367.6	4361.3	4352.7	4347.0	4344.6
2.5°	4357.5	4360.9	4367.1	4371.9	4369.0	4368.5	4365.2	4358.0	4348.9	4340.8	4337.0
3°	4350.3	4358.0	4365.7	4370.4	4368.0	4367.1	4361.8	4352.7	4342.2	4333.6	4328.4
3.5°	4346.0	4354.7	4362.8	4368.0	4365.7	4363.3	4357.5	4347.5	4335.5	4325.5	4320.2
4°	4340.8	4350.8	4359.0	4364.7	4362.3	4359.9	4352.7	4340.3	4327.9	4316.9	4308.7
4.5°	4334.1	4346.0	4354.2	4360.4	4358.5	4355.1	4346.0	4332.7	4319.3	4305.9	4297.7
5°	4327.4	4339.8	4348.9	4355.6	4353.7	4349.4	4338.9	4324.0	4307.8	4294.4	4285.3
5.5°	4321.2	4332.7	4343.2	4349.4	4348.4	4343.2	4330.3	4314.0	4295.8	4282.0	4271.4
6°	4310.2	4324.5	4336.0	4342.7	4342.2	4335.5	4320.7	4302.0	4283.4	4268.6	4257.1
6.5°	4300.6	4316.4	4327.9	4335.5	4334.6	4326.9	4311.6	4289.1	4269.5	4254.2	4240.8
7°	4289.6	4306.4	4318.3	4327.4	4326.4	4318.3	4299.7	4276.2	4255.2	4238.4	4225.5
7.5°	4277.2	4295.4	4308.3	4317.4	4316.9	4308.3	4287.7	4260.9	4238.4	4221.2	4207.4
8°	4263.8	4283.4	4297.7	4306.4	4306.8	4297.7	4274.8	4245.6	4221.7	4203.5	4189.7
8.5°	4249.9	4270.5	4285.8	4294.9	4295.8	4285.3	4260.4	4229.4	4204.0	4185.4	4170.1
9°	4234.6	4256.1	4273.4	4282.4	4283.4	4272.4	4246.1	4212.1	4184.9	4166.2	4151.4
9.5°	4217.9	4241.8	4259.0	4269.1	4270.5	4259.0	4229.4	4193.5	4166.2	4145.7	4130.4
10°	4200.7	4226.0	4245.1	4254.7	4256.1	4243.7	4212.6	4174.8	4144.7	4125.1	4108.8
10.5°	4182.0	4208.8	4229.4	4239.4	4240.4	4227.9	4194.9	4154.3	4123.7	4103.6	4086.9
11°	4162.9	4191.6	4214.1	4223.1	4224.1	4210.2	4176.3	4133.7	4101.2	4081.1	4064.4
11.5°	4142.8	4172.9	4195.9	4205.4	4206.4	4192.5	4157.1	4112.2	4077.3	4058.2	4040.9
12°	4120.3	4153.3	4178.7	4186.8	4187.8	4172.9	4136.1	4089.7	4053.9	4034.2	4016.6
12.5°	4098.3	4132.8	4158.6	4168.1	4168.1	4152.8	4114.6	4066.8	4029.5	4009.4	3992.2
13°	4075.9	4112.2	4139.5	4149.0	4149.0	4132.3	4093.5	4043.3	4004.6	3984.0	3966.8
13.5°	4051.5	4089.2	4118.4	4127.0	4126.1	4109.3	4069.6	4018.5	3977.8	3958.2	3940.5
14°	4027.6	4066.8	4096.4	4105.5	4103.6	4086.9	4046.2	3993.1	3951.5	3931.0	3913.3
14.5°	4001.7	4042.4	4073.5	4083.0	4079.2	4062.0	4021.8	3966.3	3924.3	3902.3	3885.5
15°	3975.4	4018.5	4049.6	4059.6	4056.2	4037.6	3995.5	3939.6	3895.6	3873.1	3856.8
15.5°	3948.2	3992.6	4025.2	4036.2	4030.4	4012.2	3968.7	3911.8	3866.4	3844.9	3827.2
16°	3920.4	3965.9	3999.8	4009.9	4005.1	3985.9	3942.4	3883.6	3837.2	3814.7	3796.1
16.5°	3891.7	3939.1	3973.0	3984.0	3978.3	3958.2	3914.2	3854.4	3807.1	3783.2	3764.5
17°	3862.6	3911.3	3946.7	3957.7	3950.1	3930.5	3886.0	3824.8	3775.5	3750.7	3732.5
17.5°	3832.0	3883.1	3919.0	3931.0	3922.3	3901.8	3856.4	3793.2	3744.4	3718.1	3698.5
18°	3801.8	3853.5	3890.8	3902.3	3892.7	3872.6	3827.2	3762.6	3711.0	3684.7	3664.1
18.5°	3770.7	3823.4	3861.1	3873.6	3863.0	3843.0	3796.1	3730.1	3678.5	3650.2	3630.2
19°	3738.7	3792.7	3832.4	3844.4	3833.4	3812.8	3764.5	3697.6	3645.5	3616.8	3593.3
19.5°	3706.2	3761.2	3801.4	3814.3	3803.3	3781.3	3732.5	3664.1	3612.9	3580.4	3556.5
20°	3673.7	3729.6	3771.2	3783.7	3772.2	3748.8	3700.9	3631.6	3578.5	3544.6	3519.7
20.5°	3639.7	3696.1	3739.7	3750.7	3739.2	3717.2	3667.5	3597.2	3543.6	3508.2	3482.9
21°	3605.8	3662.7	3707.6	3719.1	3707.1	3684.2	3633.0	3563.2	3509.2	3472.3	3446.0



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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°	3501.0	3558.4	3606.7	3617.7	3611.5	3581.4	3528.8	3460.9	3400.1	3359.5	3326.0
23°	3465.2	3522.1	3571.3	3582.8	3577.5	3545.0	3494.3	3424.0	3361.4	3320.3	3285.8
23.5°	3428.8	3484.8	3535.5	3546.9	3543.6	3508.7	3459.4	3387.2	3323.6	3280.1	3244.2
24°	3391.0	3448.0	3497.7	3510.1	3509.6	3472.3	3422.1	3349.9	3284.9	3240.4	3203.1
24.5°	3352.8	3410.2	3460.4	3473.3	3475.7	3441.7	3383.4	3312.1	3247.6	3200.2	3161.0
25°	3314.1	3371.9	3422.1	3435.5	3438.4	3404.0	3344.2	3274.4	3207.9	3160.1	3120.4
25.5°	3275.3	3331.3	3383.4	3396.3	3401.1	3365.2	3305.0	3235.1	3168.7	3118.9	3078.3
26°	3236.6	3292.5	3343.2	3358.0	3364.3	3327.4	3265.3	3196.9	3129.5	3078.3	3036.7
26.5°	3195.5	3252.8	3302.1	3318.4	3327.0	3287.3	3224.1	3157.2	3089.8	3037.2	2994.1
27°	3155.3	3210.8	3261.4	3278.2	3289.2	3248.5	3184.0	3118.0	3048.2	2996.0	2952.0
27.5°	3113.2	3168.2	3218.9	3237.5	3249.5	3207.9	3143.3	3077.8	3008.5	2954.0	2908.5
28°	3071.6	3125.6	3174.9	3195.5	3209.8	3167.7	3102.2	3036.7	2966.9	2909.5	2863.6
28.5°	3029.0	3082.6	3130.9	3153.4	3170.6	3126.6	3060.6	2996.0	2925.3	2864.5	2817.2
29°	2985.5	3038.6	3085.9	3110.3	3130.4	3085.5	3017.6	2953.5	2881.7	2820.1	2770.8
29.5°	2941.0	2992.7	3039.6	3066.8	3088.3	3044.3	2974.5	2909.0	2836.3	2773.7	2721.5
30°	2896.1	2946.3	2993.2	3022.3	3046.7	3002.3	2930.5	2864.5	2789.9	2726.8	2672.8
30.5°	2850.2	2899.4	2946.3	2975.5	3004.2	2958.7	2886.0	2818.1	2744.0	2677.5	2623.0
31°	2803.3	2851.6	2896.6	2930.5	2962.6	2915.2	2840.1	2771.8	2694.8	2628.3	2572.3
31.5°	2755.0	2802.8	2849.2	2883.2	2917.6	2871.2	2793.7	2723.9	2644.5	2578.6	2521.2
32°	2704.8	2752.1	2799.0	2834.9	2873.1	2826.3	2747.4	2675.2	2592.9	2527.4	2468.6
32.5°	2655.5	2703.8	2749.3	2785.6	2828.2	2779.9	2699.5	2625.4	2540.8	2475.3	2416.9
33°	2603.9	2652.7	2700.0	2737.3	2782.3	2733.0	2651.2	2573.3	2487.2	2421.2	2365.3
33.5°	2550.8	2601.5	2651.7	2688.1	2734.0	2685.7	2602.5	2520.7	2432.2	2367.2	2313.1
34°	2494.9	2548.9	2600.5	2638.3	2686.6	2636.9	2552.7	2467.6	2376.7	2313.6	2260.1
34.5°	2438.0	2497.3	2549.4	2588.1	2635.0	2585.7	2503.5	2413.1	2317.9	2256.2	2205.5
35°	2378.7	2443.2	2497.3	2535.5	2584.3	2535.0	2452.8	2357.1	2260.5	2198.8	2151.5
35.5°	2319.4	2389.2	2447.5	2483.4	2530.7	2483.9	2402.1	2301.7	2203.6	2141.9	2096.0
36°	2255.8	2334.7	2393.0	2431.3	2477.2	2431.7	2350.0	2245.7	2146.2	2084.1	2038.6
36.5°	2192.2	2276.8	2341.8	2379.1	2419.8	2377.7	2295.9	2188.8	2087.9	2025.3	1979.3
37°	2126.6	2218.0	2287.3	2324.1	2361.4	2321.7	2240.5	2132.4	2027.6	1966.0	1917.2
37.5°	2061.6	2156.8	2231.4	2267.7	2301.2	2264.4	2184.5	2074.0	1970.7	1905.7	1856.4
38°	1994.2	2094.1	2173.0	2207.0	2239.0	2204.1	2126.2	2016.2	1911.0	1844.0	1792.4
38.5°	1930.1	2031.5	2114.7	2150.1	2173.5	2143.4	2066.9	1957.8	1851.7	1781.8	1728.8
39°	1863.1	1966.4	2053.0	2087.9	2108.9	2080.7	2005.2	1899.0	1790.9	1719.2	1665.2
39.5°	1798.6	1901.4	1990.3	2025.7	2042.5	2015.7	1942.5	1838.3	1730.7	1656.1	1599.2
40°	1734.0	1832.5	1924.8	1961.2	1975.5	1947.3	1878.4	1776.1	1666.6	1591.0	1533.2
40.5°	1669.9	1765.6	1861.7	1895.2	1909.5	1878.9	1814.4	1713.9	1603.9	1527.0	1465.7
41°	1604.9	1702.5	1797.1	1827.7	1843.5	1809.1	1745.5	1651.3	1539.9	1463.3	1398.8
41.5°	1540.8	1636.9	1731.1	1760.8	1779.9	1740.2	1678.1	1589.6	1475.8	1402.6	1332.8
42°	1476.3	1570.9	1663.2	1721.1	1714.9	1670.9	1609.7	1524.1	1411.2	1339.0	1267.8
42.5°	1411.7	1505.4	1595.3	1648.4	1652.2	1602.0	1542.3	1459.5	1351.4	1277.3	1205.1
43°	1346.2	1439.4	1527.4	1574.3	1588.6	1534.1	1475.3	1393.5	1289.8	1216.1	1144.9
43.5°	1282.1	1375.8	1460.0	1500.6	1521.2	1467.7	1408.4	1329.4	1231.9	1155.9	1085.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1097.5	1185.0	1255.8	1295.0	1323.7	1270.6	1209.4	1137.7	1055.4	979.9	917.7
45.5°	1039.2	1121.4	1188.9	1231.4	1258.7	1204.6	1144.4	1077.9	997.6	923.9	865.1
46°	978.9	1059.7	1122.4	1167.8	1196.0	1141.5	1081.3	1016.2	941.1	868.4	813.9
46.5°	919.6	998.5	1056.4	1104.7	1135.3	1079.3	1017.6	956.4	883.7	817.3	764.7
47°	861.7	937.8	993.3	1041.1	1074.6	1018.6	956.4	895.7	828.3	764.2	716.4
47.5°	805.3	878.0	932.5	979.4	1014.3	959.3	896.7	838.3	774.7	715.4	670.9
48°	750.3	820.1	872.7	918.7	955.0	903.4	838.8	780.5	723.1	667.6	627.4
48.5°	697.7	764.2	813.9	859.8	896.7	849.3	783.3	725.5	672.4	623.1	586.3
49°	646.1	709.2	758.5	802.0	838.8	795.3	728.8	671.4	621.7	578.6	546.6
49.5°	596.3	655.6	703.9	746.0	781.4	743.2	678.6	620.2	572.9	536.6	507.4
50°	549.5	602.6	651.3	689.6	727.4	691.0	628.9	571.5	525.6	496.9	471.5
50.5°	503.1	550.9	599.7	636.0	674.3	641.8	582.0	525.1	481.1	462.0	438.5
51°	459.6	503.1	551.9	584.4	622.6	593.5	537.5	481.6	442.4	427.5	405.5
51.5°	416.5	457.7	505.0	535.6	574.3	547.6	495.0	444.7	404.1	392.6	373.0
52°	376.4	415.1	461.0	489.2	527.5	502.6	459.6	407.9	365.4	358.2	340.0
52.5°	338.1	374.0	418.0	443.8	482.0	464.3	423.7	370.6	327.1	323.8	309.4
53°	302.7	336.7	378.3	401.2	441.4	425.6	387.8	333.8	297.0	294.1	282.1
53.5°	269.2	302.2	339.5	361.5	400.7	387.4	352.0	302.7	269.7	267.3	255.4
54°	239.6	270.2	304.6	325.2	359.6	348.6	316.1	274.5	245.3	242.0	231.0
54.5°	212.3	240.1	270.2	290.8	319.4	310.4	286.9	248.7	223.3	217.6	206.1
55°	187.5	213.3	239.6	259.7	285.0	280.7	259.2	225.7	202.8	195.6	183.6
55.5°	163.6	187.0	210.4	230.5	253.9	250.1	232.9	202.8	182.7	173.6	161.6
56°	144.9	163.1	184.6	203.2	225.2	223.3	207.5	182.2	163.6	153.5	141.6
56.5°	125.8	143.9	162.1	177.4	198.9	197.5	183.6	162.6	145.4	134.4	122.4
57°	107.1	125.3	142.5	156.9	174.5	173.6	161.6	143.5	127.7	116.7	105.2
57.5°	88.5	106.2	122.4	136.8	151.1	150.6	140.6	125.3	111.4	100.4	88.9
58°	70.8	87.0	102.8	116.2	130.1	129.6	121.5	108.6	95.6	83.7	71.3
58.5°	53.6	68.4	83.2	96.1	110.9	110.5	103.8	92.3	78.9	71.3	60.7
59°	39.2	51.6	64.6	76.0	92.3	93.3	86.1	74.6	67.0	58.8	49.7
59.5°	28.7	37.8	47.3	56.9	77.9	80.3	72.7	63.1	55.0	45.9	39.2
60°	21.5	27.3	34.4	41.6	63.6	67.4	59.8	51.6	42.6	33.5	28.7
60.5°	15.8	20.6	24.9	29.6	49.3	54.5	46.4	40.2	30.6	21.0	17.7
61°	13.4	17.7	18.7	22.0	34.9	41.6	33.0	28.7	19.1	16.3	13.9
61.5°	11.0	14.8	15.8	16.3	20.6	28.7	20.1	17.2	14.3	12.9	11.0
62°	8.6	12.0	12.9	13.9	15.3	15.8	15.3	12.9	11.0	10.0	9.1
62.5°	6.2	9.1	10.0	11.5	12.0	12.0	11.5	10.5	8.6	8.1	7.2
63°	5.3	6.7	7.7	9.1	9.6	9.6	9.1	8.1	7.2	6.7	6.2
63.5°	4.3	5.3	6.2	6.7	7.7	7.7	7.2	6.7	5.7	5.7	5.3
64°	3.3	4.3	5.3	5.7	6.2	6.2	6.2	5.7	4.8	4.8	4.3
64.5°	2.9	3.8	4.3	4.8	5.3	5.3	4.8	4.8	3.8	3.8	3.8
65°	2.4	3.3	3.8	3.8	4.3	4.3	4.3	3.8	3.3	3.3	3.3
65.5°	2.4	2.9	2.9	3.3	3.8	3.3	3.3	3.3	2.9	2.9	2.9
66°	1.9	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.4	2.4	2.4



TEST NUMBER: P776703

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.4	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.4	1.4	1.4
68°	1.0	1.4	1.4	1.4	1.9	1.4	1.9	1.4	1.4	1.4	1.4
68.5°	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
69°	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.0	1.0	1.0
69.5°	1.0	1.0	1.0	1.0	1.4	1.0	1.0	1.0	1.0	1.0	1.0
70°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
71°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5
77°	0.0	0.0	0.0	0.5	0.5	0.5	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: P776703
CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

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: P776703

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4363.3	4363.3	4363.3	4363.3	4363.3	4363.3
0.5°	4361.8	4356.6	4359.4	4361.8	4363.3	4362.3
1°	4357.0	4350.8	4354.2	4358.0	4360.4	4361.3
1.5°	4350.8	4344.1	4348.4	4352.7	4358.0	4359.9
2°	4343.2	4336.0	4340.8	4347.0	4352.7	4357.5
2.5°	4335.0	4326.9	4331.7	4340.3	4348.0	4357.5
3°	4325.5	4316.4	4322.6	4331.7	4343.2	4350.3
3.5°	4315.0	4304.9	4311.6	4323.6	4336.5	4346.0
4°	4304.0	4293.0	4300.1	4314.0	4329.8	4340.8
4.5°	4291.5	4279.1	4287.7	4303.5	4321.2	4334.1
5°	4277.7	4264.3	4273.8	4291.5	4312.1	4327.4
5.5°	4262.8	4249.4	4259.0	4279.1	4301.6	4321.2
6°	4247.1	4233.2	4244.2	4266.2	4291.1	4310.2
6.5°	4230.3	4215.0	4227.4	4251.4	4279.1	4300.6
7°	4213.1	4197.8	4210.2	4236.1	4266.7	4289.6
7.5°	4194.5	4178.2	4192.1	4220.8	4252.8	4277.2
8°	4175.8	4157.6	4173.4	4203.5	4238.0	4263.8
8.5°	4155.7	4136.6	4153.3	4185.4	4221.2	4249.9
9°	4135.6	4115.5	4132.3	4166.7	4204.5	4234.6
9.5°	4113.2	4093.1	4111.2	4146.6	4186.3	4217.9
10°	4091.2	4070.6	4088.8	4126.5	4167.7	4200.7
10.5°	4067.7	4045.7	4066.3	4105.0	4148.1	4182.0
11°	4043.8	4020.9	4042.4	4082.1	4127.5	4162.9
11.5°	4019.4	3996.0	4017.5	4058.6	4106.0	4142.8
12°	3993.6	3969.2	3992.2	4034.7	4083.0	4120.3
12.5°	3967.8	3942.9	3966.3	4009.4	4059.6	4098.3
13°	3940.5	3915.2	3939.1	3984.0	4036.2	4075.9
13.5°	3912.8	3887.0	3910.9	3957.3	4010.8	4051.5
14°	3883.6	3858.3	3882.2	3931.0	3985.5	4027.6
14.5°	3854.0	3828.6	3853.0	3903.2	3958.7	4001.7
15°	3823.4	3798.0	3822.9	3874.5	3932.9	3975.4
15.5°	3793.7	3766.0	3791.8	3844.9	3903.7	3948.2
16°	3761.7	3734.9	3760.7	3815.7	3875.5	3920.4
16.5°	3729.6	3701.4	3728.2	3786.1	3846.8	3891.7
17°	3696.1	3668.9	3695.7	3755.0	3817.1	3862.6
17.5°	3663.6	3634.5	3662.2	3722.0	3785.1	3832.0
18°	3630.2	3599.5	3628.7	3689.5	3753.5	3801.8
18.5°	3595.2	3564.2	3594.8	3656.0	3721.5	3770.7
19°	3560.8	3529.7	3558.9	3621.5	3688.0	3738.7
19.5°	3525.9	3493.9	3524.5	3587.6	3654.5	3706.2
20°	3491.0	3456.6	3489.6	3551.7	3620.1	3673.7
20.5°	3456.6	3420.2	3453.7	3515.4	3584.2	3639.7
21°	3419.3	3383.4	3417.3	3479.0	3548.4	3605.8

TEST NUMBER: P776703

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3305.0	3271.5	3305.0	3363.8	3436.0	3501.0
23°	3265.8	3232.8	3265.8	3324.6	3397.3	3465.2
23.5°	3227.0	3194.5	3228.5	3285.4	3358.0	3428.8
24°	3186.8	3155.3	3188.3	3245.2	3317.9	3391.0
24.5°	3146.7	3116.1	3149.5	3204.1	3278.7	3352.8
25°	3106.5	3075.4	3108.9	3162.9	3238.5	3314.1
25.5°	3065.4	3035.2	3068.7	3121.8	3197.4	3275.3
26°	3025.2	2994.6	3026.2	3078.3	3156.7	3236.6
26.5°	2983.1	2952.5	2983.1	3036.7	3115.1	3195.5
27°	2940.1	2909.5	2939.6	2991.3	3073.0	3155.3
27.5°	2896.1	2866.4	2894.7	2946.8	3030.0	3113.2
28°	2851.1	2819.1	2847.3	2901.3	2986.0	3071.6
28.5°	2804.3	2772.2	2802.4	2855.4	2941.5	3029.0
29°	2757.4	2723.9	2754.1	2809.1	2896.6	2985.5
29.5°	2709.6	2675.2	2704.8	2760.8	2850.7	2941.0
30°	2659.8	2624.0	2654.6	2712.9	2804.7	2896.1
30.5°	2609.2	2569.5	2603.9	2663.7	2756.4	2850.2
31°	2557.5	2514.9	2550.3	2614.4	2708.1	2803.3
31.5°	2504.9	2459.5	2496.8	2565.6	2659.4	2755.0
32°	2451.8	2402.6	2440.8	2513.0	2610.1	2704.8
32.5°	2396.4	2346.1	2385.4	2462.8	2559.9	2655.5
33°	2339.9	2287.3	2328.4	2411.2	2507.3	2603.9
33.5°	2282.5	2229.5	2271.5	2359.0	2455.2	2550.8
34°	2224.7	2171.6	2215.1	2305.0	2401.1	2494.9
34.5°	2165.4	2113.2	2157.2	2248.1	2347.1	2438.0
35°	2107.0	2055.9	2098.4	2191.2	2289.7	2378.7
35.5°	2048.2	1998.0	2042.0	2132.9	2232.8	2319.4
36°	1988.0	1941.1	1984.6	2073.6	2171.1	2255.8
36.5°	1928.2	1883.2	1926.7	2012.8	2108.5	2192.2
37°	1867.4	1824.4	1867.9	1945.9	2043.9	2126.6
37.5°	1806.2	1764.1	1808.1	1883.2	1980.8	2061.6
38°	1744.5	1704.8	1746.5	1816.8	1911.9	1994.2
38.5°	1680.9	1639.8	1682.4	1752.7	1844.0	1930.1
39°	1619.2	1574.8	1618.3	1715.8	1773.7	1863.1
39.5°	1556.1	1509.3	1554.2	1641.2	1694.3	1798.6
40°	1492.5	1444.2	1489.6	1566.2	1628.3	1734.0
40.5°	1429.4	1381.6	1425.6	1491.6	1562.3	1669.9
41°	1366.7	1321.3	1358.6	1417.0	1496.8	1604.9
41.5°	1307.0	1261.5	1294.1	1351.0	1430.8	1540.8
42°	1243.8	1203.7	1230.9	1284.5	1364.4	1476.3
42.5°	1183.1	1144.9	1170.2	1219.0	1299.3	1411.7
43°	1123.3	1087.0	1109.9	1153.9	1232.8	1346.2
43.5°	1062.6	1028.6	1048.3	1090.3	1168.8	1282.1



TEST NUMBER: P776703

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	893.8	857.0	870.8	906.2	987.5	1097.5
45.5°	839.8	803.4	812.5	848.8	931.6	1039.2
46°	787.1	750.8	757.0	793.8	876.1	978.9
46.5°	738.4	697.7	702.5	740.8	823.5	919.6
47°	687.7	647.5	650.9	689.1	769.9	861.7
47.5°	641.3	598.3	601.6	640.3	720.2	805.3
48°	596.8	550.9	553.8	593.5	669.5	750.3
48.5°	553.8	504.5	509.3	549.0	621.2	697.7
49°	513.1	462.0	466.7	506.9	573.4	646.1
49.5°	474.4	420.8	426.6	466.3	528.9	596.3
50°	440.0	382.6	390.2	428.5	484.4	549.5
50.5°	406.0	348.1	355.3	392.1	443.3	503.1
51°	371.6	317.1	324.2	358.7	404.6	459.6
51.5°	337.6	288.8	295.1	326.1	367.7	416.5
52°	308.5	263.5	268.8	297.0	333.3	376.4
52.5°	280.2	240.5	243.9	269.2	300.8	338.1
53°	253.5	218.5	221.9	242.5	269.7	302.7
53.5°	229.5	198.5	200.4	217.1	241.0	269.2
54°	206.6	179.3	180.3	194.2	214.7	239.6
54.5°	184.6	162.1	163.1	172.2	190.3	212.3
55°	164.5	145.4	145.9	154.0	165.9	187.5
55.5°	144.4	128.6	129.1	135.8	147.3	163.6
56°	126.2	111.9	111.9	117.6	128.6	144.9
56.5°	109.5	95.2	94.7	99.9	110.0	125.8
57°	93.7	77.9	77.5	81.8	91.3	107.1
57.5°	76.5	60.7	60.7	64.1	73.6	88.5
58°	65.0	46.4	45.9	48.8	56.4	70.8
58.5°	53.6	34.9	34.0	35.9	42.1	53.6
59°	42.1	25.8	25.3	26.8	31.1	39.2
59.5°	30.6	19.6	19.1	20.1	23.0	28.7
60°	19.1	16.7	16.3	17.2	17.2	21.5
60.5°	14.8	13.4	13.4	14.3	14.8	15.8
61°	12.0	10.5	10.0	12.0	12.0	13.4
61.5°	9.6	7.7	7.2	9.1	9.6	11.0
62°	7.7	6.2	6.2	6.2	7.2	8.6
62.5°	6.2	5.3	4.8	5.3	5.7	6.2
63°	5.3	4.3	4.3	4.3	4.8	5.3
63.5°	4.3	3.8	3.3	3.3	3.8	4.3
64°	3.8	3.3	2.9	2.9	3.3	3.3
64.5°	3.3	2.9	2.4	2.4	2.9	2.9
65°	2.9	2.4	1.9	2.4	2.4	2.4
65.5°	2.4	1.9	1.9	1.9	1.9	2.4
66°	1.9	1.9	1.4	1.4	1.9	1.9



TEST NUMBER: P776703

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.4	1.4	1.0	1.0	1.4	1.4
68°	1.4	1.0	1.0	1.0	1.0	1.0
68.5°	1.0	1.0	1.0	1.0	1.0	1.0
69°	1.0	1.0	1.0	1.0	1.0	1.0
69.5°	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	0.5	0.5
70.5°	1.0	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.0	0.0	0.5
75.5°	0.5	0.0	0.0	0.0	0.0	0.0
76°	0.5	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: P776703
CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-4000K

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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1121 Highway 74 South
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°	3570.9	3628.2	3675.1	3686.1	3675.6	3650.7	3598.6	3529.2	3474.7	3436.5	3406.3
22°	3536.4	3593.8	3640.7	3652.2	3643.1	3617.7	3563.7	3494.8	3437.0	3398.2	3367.1



44°	1218.5	1311.8	1392.1	1426.0	1454.7	1402.1	1340.4	1263.5	1170.7	1095.1	1028.2
44.5°	1157.3	1248.6	1323.7	1360.5	1388.7	1336.6	1275.9	1200.3	1114.7	1038.2	973.7



66.5°	1.4	1.9	2.4	2.4	2.4	2.4	2.4	2.4	1.9	1.9	1.9
67°	1.4	1.9	1.9	1.9	2.4	2.4	2.4	1.9	1.9	1.9	1.9



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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Scaled Data Report



21.5°	3381.0	3346.6	3380.0	3440.8	3511.1	3570.9
22°	3343.2	3308.8	3342.7	3403.0	3473.8	3536.4



44°	1005.2	969.8	988.0	1027.7	1107.6	1218.5
44.5°	949.7	912.4	929.7	966.5	1047.3	1157.3

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66.5°	1.9	1.4	1.4	1.4	1.4	1.4
67°	1.4	1.4	1.4	1.4	1.4	1.4

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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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)