

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: P776700

Luminaire Tested: HCDJBL54050CSD-HCD6TRH-5000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776700
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-2700K
Description: 6 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

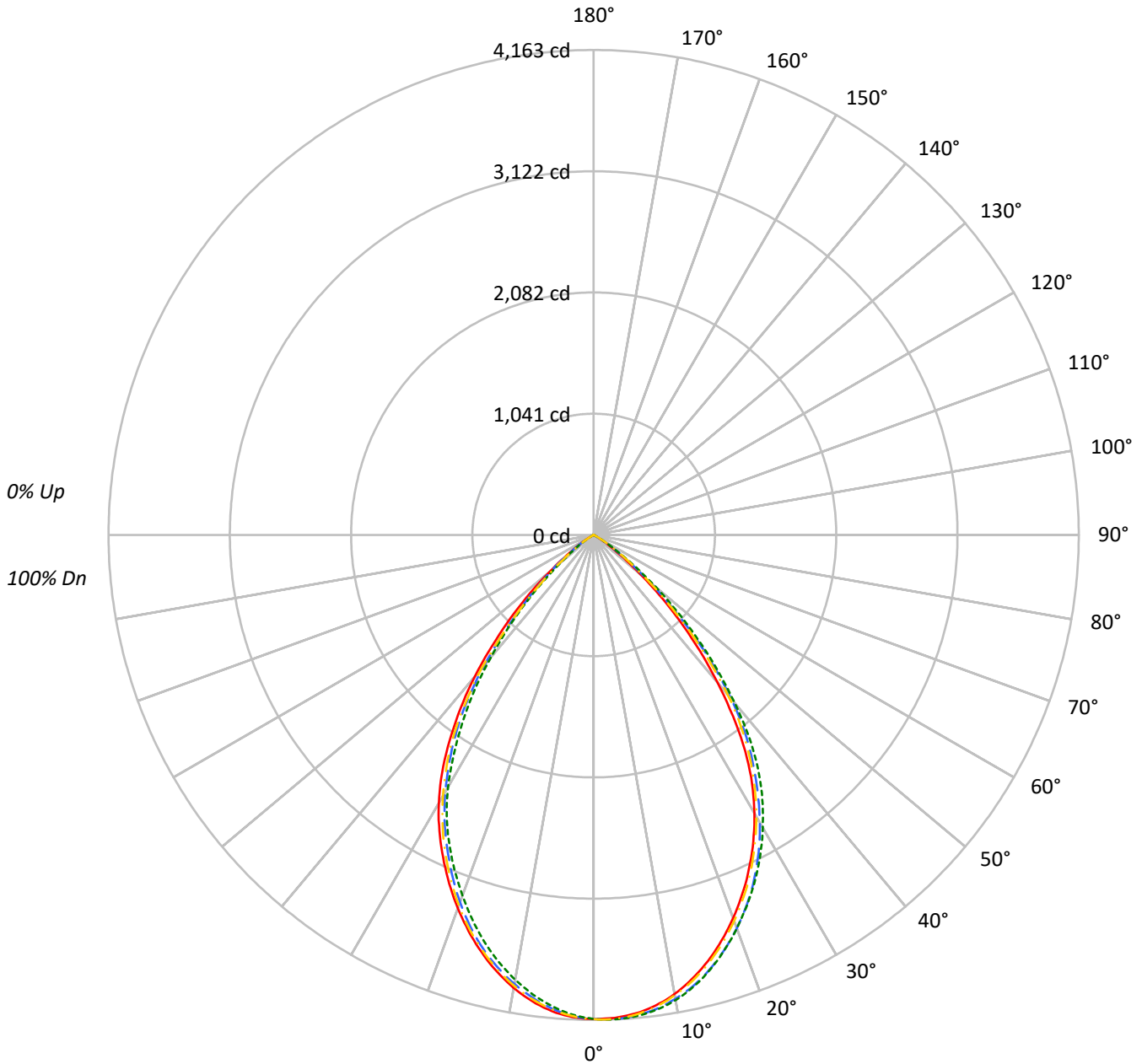
Lumens per Lamp: N/A
Luminaire Lumens: 5227.3 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	227860	227860	227860	227860
5°	226848	228230	225825	223541
10°	222753	225697	219786	215856
15°	214933	219298	210614	205336
20°	204161	209633	198870	192097
25°	190959	198126	184843	177210
30°	174641	183724	168235	158227
35°	151641	164751	144112	131062
40°	118214	134674	113613	98456
45°	81055	97762	77946	63293
50°	44638	59094	42702	31078
55°	17070	25949	18465	13237
60°	2248	6644	4440	1743
65°	298	532	415	298
70°	80	144	144	144
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: 97762 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	7.4
10°-20°	1052.0	20.1
20°-30°	1423.0	27.2
30°-40°	1366.2	26.1
40°-50°	795.6	15.2
50°-60°	195.8	3.7
60°-70°	6.3	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°	2863.0	54.8
0°-40°	4229.2	80.9
0°-60°	5220.6	99.9
0°-90°	5227.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5227.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4156	4156	4156	4156	4156	
5°	4122	4147	4104	4062	4122	390
15°	3787	3864	3711	3618	3787	1062
25°	3157	3276	3056	2930	3157	1447
35°	2266	2462	2153	1958	2266	1394
45°	1046	1261	1005	816	1046	808
55°	179	272	193	138	179	184
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°	4156.5	4156.5	4156.5	4156.5	4156.5	4156.5	4156.5	4156.5	4156.5	4156.5	4156.5
0.5°	4155.6	4156.1	4159.2	4162.0	4157.9	4159.7	4160.6	4158.8	4154.7	4152.9	4153.3
1°	4154.7	4156.5	4161.1	4164.3	4160.6	4161.5	4161.5	4158.3	4152.9	4149.2	4149.7
1.5°	4153.3	4156.5	4161.5	4165.6	4162.0	4162.9	4161.1	4157.0	4151.0	4145.6	4144.7
2°	4151.0	4156.1	4161.5	4165.6	4162.9	4162.9	4160.6	4154.7	4146.5	4141.0	4138.7
2.5°	4151.0	4154.2	4160.2	4164.7	4162.0	4161.5	4158.3	4151.5	4142.8	4135.1	4131.5
3°	4144.2	4151.5	4158.8	4163.3	4161.1	4160.2	4155.1	4146.5	4136.5	4128.3	4123.3
3.5°	4140.1	4148.3	4156.1	4161.1	4158.8	4156.5	4151.0	4141.5	4130.1	4120.5	4115.5
4°	4135.1	4144.7	4152.4	4157.9	4155.6	4153.3	4146.5	4134.6	4122.8	4112.3	4104.6
4.5°	4128.7	4140.1	4147.9	4153.8	4152.0	4148.8	4140.1	4127.4	4114.6	4101.8	4094.1
5°	4122.3	4134.2	4142.8	4149.2	4147.4	4143.3	4133.3	4119.2	4103.7	4090.9	4082.3
5.5°	4116.4	4127.4	4137.4	4143.3	4142.4	4137.4	4125.1	4109.6	4092.3	4079.1	4069.0
6°	4105.9	4119.6	4130.5	4136.9	4136.5	4130.1	4116.0	4098.2	4080.4	4066.3	4055.4
6.5°	4096.8	4111.9	4122.8	4130.1	4129.2	4121.9	4107.3	4085.9	4067.2	4052.6	4039.9
7°	4086.4	4102.3	4113.7	4122.3	4121.4	4113.7	4095.9	4073.6	4053.6	4037.6	4025.3
7.5°	4074.5	4091.8	4104.1	4112.8	4112.3	4104.1	4084.5	4059.0	4037.6	4021.2	4008.0
8°	4061.8	4080.4	4094.1	4102.3	4102.8	4094.1	4072.2	4044.4	4021.7	4004.4	3991.1
8.5°	4048.5	4068.1	4082.7	4091.4	4092.3	4082.3	4058.6	4029.0	4004.8	3987.0	3972.5
9°	4034.0	4054.5	4070.9	4079.5	4080.4	4070.0	4044.9	4012.6	3986.6	3968.8	3954.7
9.5°	4018.0	4040.8	4057.2	4066.8	4068.1	4057.2	4029.0	3994.8	3968.8	3949.2	3934.7
10°	4001.6	4025.8	4044.0	4053.1	4054.5	4042.6	4013.0	3977.0	3948.3	3929.6	3914.2
10.5°	3983.9	4009.4	4029.0	4038.5	4039.4	4027.6	3996.2	3957.4	3928.3	3909.1	3893.2
11°	3965.6	3993.0	4014.4	4023.0	4023.9	4010.7	3978.4	3937.8	3906.9	3887.7	3871.8
11.5°	3946.5	3975.2	3997.1	4006.2	4007.1	3993.9	3960.2	3917.3	3884.1	3865.9	3849.5
12°	3925.1	3956.5	3980.7	3988.4	3989.3	3975.2	3940.1	3895.9	3861.8	3843.1	3826.2
12.5°	3904.1	3936.9	3961.5	3970.6	3970.6	3956.1	3919.6	3874.1	3838.5	3819.4	3803.0
13°	3882.7	3917.3	3943.3	3952.4	3952.4	3936.5	3899.6	3851.7	3814.8	3795.3	3778.9
13.5°	3859.5	3895.5	3923.3	3931.5	3930.6	3914.6	3876.8	3828.1	3789.3	3770.7	3753.8
14°	3836.7	3874.1	3902.3	3911.0	3909.1	3893.2	3854.5	3803.9	3764.3	3744.7	3727.8
14.5°	3812.1	3850.8	3880.4	3889.6	3885.9	3869.5	3831.2	3778.4	3738.3	3717.4	3701.4
15°	3787.1	3828.1	3857.7	3867.2	3864.0	3846.3	3806.2	3752.9	3711.0	3689.6	3674.1
15.5°	3761.1	3803.5	3834.4	3844.9	3839.4	3822.1	3780.7	3726.5	3683.2	3662.7	3645.8
16°	3734.7	3777.9	3810.3	3819.9	3815.3	3797.1	3755.6	3699.6	3655.4	3634.0	3616.2
16.5°	3707.3	3752.4	3784.8	3795.3	3789.8	3770.7	3728.7	3671.8	3626.7	3603.9	3586.2
17°	3679.5	3726.0	3759.7	3770.2	3762.9	3744.2	3701.9	3643.6	3596.6	3572.9	3555.6
17.5°	3650.4	3699.1	3733.3	3744.7	3736.5	3716.9	3673.6	3613.5	3567.0	3542.0	3523.3
18°	3621.7	3670.9	3706.4	3717.4	3708.2	3689.1	3645.8	3584.3	3535.1	3510.1	3490.5
18.5°	3592.1	3642.2	3678.2	3690.0	3680.0	3660.9	3616.2	3553.4	3504.2	3477.3	3458.1
19°	3561.6	3613.0	3650.8	3662.2	3651.8	3632.2	3586.2	3522.4	3472.7	3445.4	3423.1
19.5°	3530.6	3583.0	3621.2	3633.5	3623.1	3602.1	3555.6	3490.5	3441.7	3410.8	3388.0
20°	3499.6	3552.9	3592.5	3604.4	3593.4	3571.1	3525.6	3459.5	3408.9	3376.6	3352.9
20.5°	3467.3	3521.0	3562.5	3572.9	3562.0	3541.1	3493.7	3426.7	3375.7	3342.0	3317.8
21°	3434.9	3489.1	3531.9	3542.9	3531.5	3509.6	3460.9	3394.4	3342.9	3307.8	3282.8



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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°	3335.1	3389.8	3435.8	3446.3	3440.4	3411.7	3361.6	3296.9	3239.0	3200.3	3168.4
23°	3301.0	3355.2	3402.1	3413.0	3408.0	3377.1	3328.8	3261.8	3202.1	3162.9	3130.1
23.5°	3266.4	3319.7	3367.9	3378.9	3375.7	3342.4	3295.5	3226.7	3166.1	3124.7	3090.5
24°	3230.4	3284.6	3332.0	3343.8	3343.3	3307.8	3260.0	3191.2	3129.2	3086.9	3051.3
24.5°	3193.9	3248.6	3296.4	3308.7	3311.0	3278.7	3223.1	3155.2	3093.7	3048.6	3011.2
25°	3157.0	3212.1	3260.0	3272.7	3275.5	3242.7	3185.7	3119.2	3055.9	3010.3	2972.5
25.5°	3120.1	3173.4	3223.1	3235.4	3239.9	3205.8	3148.4	3081.9	3018.5	2971.2	2932.4
26°	3083.2	3136.5	3184.8	3198.9	3204.9	3169.8	3110.6	3045.4	2981.2	2932.4	2892.8
26.5°	3044.0	3098.7	3145.6	3161.1	3169.3	3131.5	3071.4	3007.6	2943.4	2893.2	2852.2
27°	3005.8	3058.6	3106.9	3122.9	3133.3	3094.6	3033.1	2970.2	2903.7	2854.1	2812.2
27.5°	2965.7	3018.1	3066.4	3084.1	3095.5	3055.9	2994.4	2932.0	2865.9	2814.0	2770.7
28°	2926.1	2977.5	3024.5	3044.0	3057.7	3017.6	2955.2	2892.8	2826.3	2771.6	2727.9
28.5°	2885.5	2936.5	2982.5	3004.0	3020.4	2978.4	2915.6	2854.1	2786.6	2728.8	2683.7
29°	2844.0	2894.6	2939.7	2963.0	2982.1	2939.3	2874.6	2813.5	2745.2	2686.4	2639.5
29.5°	2801.7	2850.9	2895.5	2921.5	2942.0	2900.1	2833.6	2771.2	2701.9	2642.2	2592.6
30°	2758.9	2806.7	2851.3	2879.1	2902.4	2860.0	2791.7	2728.8	2657.7	2597.6	2546.1
30.5°	2715.1	2762.0	2806.7	2834.5	2861.8	2818.5	2749.3	2684.6	2614.0	2550.7	2498.7
31°	2670.5	2716.5	2759.3	2791.7	2822.2	2777.1	2705.6	2640.4	2567.1	2503.7	2450.4
31.5°	2624.5	2670.0	2714.2	2746.6	2779.4	2735.2	2661.4	2594.9	2519.2	2456.4	2401.7
32°	2576.6	2621.7	2666.4	2700.5	2737.0	2692.3	2617.2	2548.4	2470.0	2407.6	2351.6
32.5°	2529.7	2575.7	2619.0	2653.6	2694.2	2648.2	2571.6	2501.0	2420.4	2358.0	2302.4
33°	2480.5	2527.0	2572.1	2607.6	2650.4	2603.5	2525.6	2451.4	2369.4	2306.5	2253.2
33.5°	2429.9	2478.2	2526.1	2560.7	2604.4	2558.4	2479.1	2401.2	2317.0	2255.0	2203.5
34°	2376.6	2428.1	2477.3	2513.3	2559.3	2511.9	2431.8	2350.7	2264.1	2204.0	2153.0
34.5°	2322.4	2378.9	2428.6	2465.5	2510.1	2463.2	2384.8	2298.7	2208.1	2149.3	2101.0
35°	2265.9	2327.4	2378.9	2415.4	2461.8	2414.9	2336.6	2245.4	2153.4	2094.7	2049.6
35.5°	2209.5	2276.0	2331.5	2365.7	2410.8	2366.2	2288.3	2192.6	2099.2	2040.4	1996.7
36°	2148.9	2224.0	2279.6	2316.1	2359.8	2316.5	2238.6	2139.3	2044.5	1985.3	1942.0
36.5°	2088.3	2168.9	2230.9	2266.4	2305.1	2265.0	2187.1	2085.1	1989.0	1929.3	1885.6
37°	2025.9	2112.9	2178.9	2214.0	2249.5	2211.7	2134.3	2031.3	1931.6	1872.8	1826.3
37.5°	1963.9	2054.6	2125.6	2160.3	2192.1	2157.1	2081.0	1975.8	1877.4	1815.4	1768.5
38°	1899.7	1994.9	2070.1	2102.4	2132.9	2099.7	2025.4	1920.6	1820.4	1756.6	1707.4
38.5°	1838.6	1935.2	2014.5	2048.2	2070.5	2041.8	1968.9	1865.1	1763.9	1697.4	1646.8
39°	1774.9	1873.3	1955.7	1989.0	2009.0	1982.1	1910.2	1809.0	1706.1	1637.7	1586.3
39.5°	1713.4	1811.3	1896.0	1929.7	1945.7	1920.2	1850.5	1751.2	1648.7	1577.6	1523.4
40°	1651.9	1745.7	1833.6	1868.2	1881.9	1855.0	1789.4	1691.9	1587.6	1515.6	1460.5
40.5°	1590.8	1681.9	1773.5	1805.4	1819.0	1789.9	1728.4	1632.7	1527.9	1454.6	1396.3
41°	1528.9	1621.8	1712.0	1741.1	1756.2	1723.4	1662.8	1573.0	1466.9	1394.0	1332.5
41.5°	1467.8	1559.4	1649.1	1677.4	1695.6	1657.8	1598.6	1514.3	1405.9	1336.2	1269.6
42°	1406.3	1496.5	1584.4	1639.6	1633.6	1591.7	1533.4	1451.9	1344.4	1275.6	1207.7
42.5°	1344.8	1434.1	1519.7	1570.3	1574.0	1526.1	1469.2	1390.4	1287.4	1216.8	1148.0
43°	1282.4	1371.2	1455.1	1499.7	1513.4	1461.4	1405.4	1327.5	1228.6	1158.5	1090.6
43.5°	1221.4	1310.6	1390.8	1429.5	1449.1	1398.1	1341.6	1266.5	1173.5	1101.1	1034.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1045.5	1128.9	1196.3	1233.7	1261.0	1210.4	1152.1	1083.8	1005.4	933.4	874.2
45.5°	989.9	1068.3	1132.5	1173.1	1199.0	1147.6	1090.2	1026.8	950.3	880.1	824.1
46°	932.5	1009.5	1069.2	1112.5	1139.4	1087.4	1030.0	968.1	896.5	827.3	775.4
46.5°	876.0	951.2	1006.3	1052.3	1081.5	1028.2	969.4	911.1	841.9	778.5	728.4
47°	820.9	893.3	946.2	991.8	1023.6	970.3	911.1	853.3	789.0	728.0	682.4
47.5°	767.2	836.4	888.3	933.0	966.2	913.8	854.2	798.6	738.0	681.5	639.1
48°	714.8	781.3	831.4	875.1	909.7	860.5	799.0	743.5	688.8	636.0	597.7
48.5°	664.7	728.0	775.4	819.1	854.2	809.1	746.2	691.1	640.5	593.6	558.5
49°	615.5	675.6	722.5	764.0	799.0	757.6	694.3	639.6	592.2	551.2	520.7
49.5°	568.1	624.6	670.6	710.7	744.4	707.9	646.4	590.9	545.8	511.1	483.3
50°	523.4	574.0	620.5	656.9	692.9	658.3	599.1	544.4	500.7	473.3	449.2
50.5°	479.2	524.8	571.3	605.9	642.3	611.4	554.4	500.2	458.3	440.1	417.7
51°	437.8	479.2	525.7	556.7	593.1	565.3	512.0	458.7	421.4	407.3	386.3
51.5°	396.8	436.0	481.1	510.2	547.1	521.6	471.5	423.7	384.9	374.0	355.3
52°	358.5	395.4	439.2	466.0	502.5	478.8	437.8	388.6	348.0	341.2	323.9
52.5°	322.1	356.2	398.2	422.8	459.2	442.3	403.6	353.1	311.6	308.4	294.7
53°	288.4	320.7	360.3	382.2	420.5	405.4	369.5	318.0	282.9	280.2	268.8
53.5°	256.5	287.9	323.4	344.4	381.8	369.0	335.3	288.4	256.9	254.7	243.3
54°	228.2	257.4	290.2	309.8	342.6	332.1	301.1	261.5	233.7	230.5	220.0
54.5°	202.3	228.7	257.4	277.0	304.3	295.7	273.3	236.9	212.7	207.3	196.3
55°	178.6	203.2	228.2	247.4	271.5	267.4	246.9	215.0	193.2	186.3	174.9
55.5°	155.8	178.1	200.4	219.6	241.9	238.3	221.9	193.2	174.0	165.4	154.0
56°	138.0	155.3	175.8	193.6	214.6	212.7	197.7	173.6	155.8	146.2	134.8
56.5°	119.8	137.1	154.4	169.0	189.5	188.1	174.9	154.9	138.5	128.0	116.6
57°	102.0	119.4	135.8	149.4	166.3	165.4	154.0	136.7	121.6	111.2	100.2
57.5°	84.3	101.1	116.6	130.3	144.0	143.5	133.9	119.4	106.1	95.7	84.7
58°	67.4	82.9	97.9	110.7	123.9	123.5	115.7	103.4	91.1	79.7	67.9
58.5°	51.0	65.1	79.3	91.6	105.7	105.2	98.9	87.9	75.2	67.9	57.9
59°	37.4	49.2	61.5	72.4	87.9	88.8	82.0	71.1	63.8	56.0	47.4
59.5°	27.3	36.0	45.1	54.2	74.3	76.5	69.2	60.1	52.4	43.7	37.4
60°	20.5	26.0	32.8	39.6	60.6	64.2	56.9	49.2	40.5	31.9	27.3
60.5°	15.0	19.6	23.7	28.2	46.9	51.9	44.2	38.3	29.2	20.0	16.9
61°	12.8	16.9	17.8	21.0	33.3	39.6	31.4	27.3	18.2	15.5	13.2
61.5°	10.5	14.1	15.0	15.5	19.6	27.3	19.1	16.4	13.7	12.3	10.5
62°	8.2	11.4	12.3	13.2	14.6	15.0	14.6	12.3	10.5	9.6	8.7
62.5°	5.9	8.7	9.6	10.9	11.4	11.4	10.9	10.0	8.2	7.7	6.8
63°	5.0	6.4	7.3	8.7	9.1	9.1	8.7	7.7	6.8	6.4	5.9
63.5°	4.1	5.0	5.9	6.4	7.3	7.3	6.8	6.4	5.5	5.5	5.0
64°	3.2	4.1	5.0	5.5	5.9	5.9	5.9	5.5	4.6	4.6	4.1
64.5°	2.7	3.6	4.1	4.6	5.0	5.0	4.6	4.6	3.6	3.6	3.6
65°	2.3	3.2	3.6	3.6	4.1	4.1	4.1	3.6	3.2	3.2	3.2
65.5°	2.3	2.7	2.7	3.2	3.6	3.2	3.2	3.2	2.7	2.7	2.7
66°	1.8	2.3	2.7	2.7	2.7	2.7	2.7	2.7	2.3	2.3	2.3



TEST NUMBER: P776700

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-2700K

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	1.8	1.8	1.8	1.8	1.8	1.8	1.4	1.4	1.4
68°	0.9	1.4	1.4	1.4	1.8	1.4	1.8	1.4	1.4	1.4	1.4
68.5°	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
69°	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9
69.5°	0.9	0.9	0.9	0.9	1.4	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
71°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
71.5°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	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: P776700
CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-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: P776700

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4156.5	4156.5	4156.5	4156.5	4156.5	4156.5
0.5°	4155.1	4150.1	4152.9	4155.1	4156.5	4155.6
1°	4150.6	4144.7	4147.9	4151.5	4153.8	4154.7
1.5°	4144.7	4138.3	4142.4	4146.5	4151.5	4153.3
2°	4137.4	4130.5	4135.1	4141.0	4146.5	4151.0
2.5°	4129.6	4121.9	4126.4	4134.6	4141.9	4151.0
3°	4120.5	4111.9	4117.8	4126.4	4137.4	4144.2
3.5°	4110.5	4100.9	4107.3	4118.7	4131.0	4140.1
4°	4100.0	4089.5	4096.4	4109.6	4124.6	4135.1
4.5°	4088.2	4076.3	4084.5	4099.6	4116.4	4128.7
5°	4075.0	4062.2	4071.3	4088.2	4107.8	4122.3
5.5°	4060.8	4048.1	4057.2	4076.3	4097.7	4116.4
6°	4045.8	4032.6	4043.1	4064.0	4087.7	4105.9
6.5°	4029.9	4015.3	4027.1	4049.9	4076.3	4096.8
7°	4013.5	3998.9	4010.7	4035.3	4064.5	4086.4
7.5°	3995.7	3980.2	3993.4	4020.8	4051.3	4074.5
8°	3977.9	3960.6	3975.7	4004.4	4037.2	4061.8
8.5°	3958.8	3940.6	3956.5	3987.0	4021.2	4048.5
9°	3939.7	3920.5	3936.5	3969.3	4005.3	4034.0
9.5°	3918.3	3899.1	3916.4	3950.1	3988.0	4018.0
10°	3897.3	3877.7	3895.0	3931.0	3970.2	4001.6
10.5°	3875.0	3854.0	3873.6	3910.5	3951.5	3983.9
11°	3852.2	3830.3	3850.8	3888.6	3931.9	3965.6
11.5°	3829.0	3806.6	3827.1	3866.3	3911.4	3946.5
12°	3804.4	3781.1	3803.0	3843.5	3889.6	3925.1
12.5°	3779.8	3756.1	3778.4	3819.4	3867.2	3904.1
13°	3753.8	3729.7	3752.4	3795.3	3844.9	3882.7
13.5°	3727.4	3702.8	3725.6	3769.7	3820.8	3859.5
14°	3699.6	3675.4	3698.2	3744.7	3796.6	3836.7
14.5°	3671.3	3647.2	3670.4	3718.3	3771.1	3812.1
15°	3642.2	3618.0	3641.7	3690.9	3746.5	3787.1
15.5°	3613.9	3587.5	3612.1	3662.7	3718.7	3761.1
16°	3583.4	3557.9	3582.5	3634.9	3691.8	3734.7
16.5°	3552.9	3526.0	3551.5	3606.7	3664.5	3707.3
17°	3521.0	3495.0	3520.6	3577.0	3636.3	3679.5
17.5°	3490.0	3462.2	3488.7	3545.6	3605.7	3650.4
18°	3458.1	3429.0	3456.8	3514.6	3575.7	3621.7
18.5°	3424.9	3395.3	3424.4	3482.7	3545.2	3592.1
19°	3392.1	3362.5	3390.3	3449.9	3513.3	3561.6
19.5°	3358.8	3328.3	3357.5	3417.6	3481.4	3530.6
20°	3325.6	3292.8	3324.2	3383.4	3448.6	3499.6
20.5°	3292.8	3258.2	3290.0	3348.8	3414.4	3467.3
21°	3257.2	3223.1	3255.4	3314.2	3380.2	3434.9



TEST NUMBER: P776700

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3148.4	3116.5	3148.4	3204.4	3273.2	3335.1
23°	3111.0	3079.6	3111.0	3167.0	3236.3	3301.0
23.5°	3074.1	3043.1	3075.5	3129.7	3198.9	3266.4
24°	3035.8	3005.8	3037.2	3091.4	3160.7	3230.4
24.5°	2997.6	2968.4	3000.3	3052.2	3123.3	3193.9
25°	2959.3	2929.7	2961.6	3013.1	3085.0	3157.0
25.5°	2920.1	2891.4	2923.3	2973.9	3045.9	3120.1
26°	2881.9	2852.7	2882.8	2932.4	3007.1	3083.2
26.5°	2841.8	2812.6	2841.8	2892.8	2967.5	3044.0
27°	2800.8	2771.6	2800.3	2849.5	2927.4	3005.8
27.5°	2758.9	2730.6	2757.5	2807.1	2886.4	2965.7
28°	2716.0	2685.5	2712.4	2763.9	2844.5	2926.1
28.5°	2671.4	2640.9	2669.6	2720.1	2802.1	2885.5
29°	2626.7	2594.9	2623.6	2675.9	2759.3	2844.0
29.5°	2581.2	2548.4	2576.6	2629.9	2715.6	2801.7
30°	2533.8	2499.6	2528.8	2584.4	2671.8	2758.9
30.5°	2485.5	2447.7	2480.5	2537.5	2625.8	2715.1
31°	2436.3	2395.8	2429.5	2490.5	2579.8	2670.5
31.5°	2386.2	2342.9	2378.5	2444.1	2533.4	2624.5
32°	2335.6	2288.7	2325.2	2394.0	2486.4	2576.6
32.5°	2282.8	2235.0	2272.3	2346.1	2438.6	2529.7
33°	2229.0	2178.9	2218.1	2296.9	2388.5	2480.5
33.5°	2174.4	2123.8	2163.9	2247.3	2338.8	2429.9
34°	2119.3	2068.7	2110.1	2195.8	2287.4	2376.6
34.5°	2062.8	2013.1	2055.0	2141.6	2235.9	2322.4
35°	2007.2	1958.4	1999.0	2087.4	2181.2	2265.9
35.5°	1951.2	1903.3	1945.2	2031.8	2127.0	2209.5
36°	1893.8	1849.1	1890.6	1975.3	2068.2	2148.9
36.5°	1836.8	1794.0	1835.4	1917.4	2008.6	2088.3
37°	1779.0	1738.0	1779.4	1853.7	1947.1	2025.9
37.5°	1720.6	1680.6	1722.5	1794.0	1886.9	1963.9
38°	1661.9	1624.1	1663.7	1730.7	1821.3	1899.7
38.5°	1601.3	1562.1	1602.7	1669.6	1756.6	1838.6
39°	1542.5	1500.2	1541.6	1634.5	1689.7	1774.9
39.5°	1482.4	1437.7	1480.6	1563.5	1614.0	1713.4
40°	1421.8	1375.8	1419.1	1492.0	1551.2	1651.9
40.5°	1361.7	1316.1	1358.0	1420.9	1488.3	1590.8
41°	1302.0	1258.7	1294.2	1349.8	1425.9	1528.9
41.5°	1245.0	1201.8	1232.7	1287.0	1363.0	1467.8
42°	1184.9	1146.6	1172.6	1223.6	1299.7	1406.3
42.5°	1127.1	1090.6	1114.8	1161.2	1237.8	1344.8
43°	1070.1	1035.5	1057.4	1099.3	1174.4	1282.4
43.5°	1012.3	979.9	998.6	1038.7	1113.4	1221.4



TEST NUMBER: P776700

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	851.4	816.4	829.6	863.3	940.7	1045.5
45.5°	800.0	765.3	774.0	808.6	887.4	989.9
46°	749.8	715.2	721.1	756.2	834.6	932.5
46.5°	703.4	664.7	669.2	705.7	784.5	876.0
47°	655.1	616.8	620.0	656.5	733.4	820.9
47.5°	610.9	569.9	573.1	610.0	686.1	767.2
48°	568.5	524.8	527.5	565.3	637.8	714.8
48.5°	527.5	480.6	485.2	523.0	591.8	664.7
49°	488.8	440.1	444.6	482.9	546.2	615.5
49.5°	451.9	400.9	406.4	444.2	503.8	568.1
50°	419.1	364.4	371.7	408.2	461.5	523.4
50.5°	386.8	331.6	338.5	373.6	422.3	479.2
51°	354.0	302.0	308.9	341.7	385.4	437.8
51.5°	321.6	275.2	281.1	310.7	350.3	396.8
52°	293.8	251.0	256.0	282.9	317.5	358.5
52.5°	267.0	229.1	232.3	256.5	286.5	322.1
53°	241.4	208.2	211.4	231.0	256.9	288.4
53.5°	218.7	189.1	190.9	206.8	229.6	256.5
54°	196.8	170.8	171.7	185.0	204.5	228.2
54.5°	175.8	154.4	155.3	164.0	181.3	202.3
55°	156.7	138.5	138.9	146.7	158.1	178.6
55.5°	137.6	122.5	123.0	129.4	140.3	155.8
56°	120.3	106.6	106.6	112.1	122.5	138.0
56.5°	104.3	90.7	90.2	95.2	104.8	119.8
57°	89.3	74.3	73.8	77.9	87.0	102.0
57.5°	72.9	57.9	57.9	61.0	70.2	84.3
58°	62.0	44.2	43.7	46.5	53.8	67.4
58.5°	51.0	33.3	32.3	34.2	40.1	51.0
59°	40.1	24.6	24.1	25.5	29.6	37.4
59.5°	29.2	18.7	18.2	19.1	21.9	27.3
60°	18.2	15.9	15.5	16.4	16.4	20.5
60.5°	14.1	12.8	12.8	13.7	14.1	15.0
61°	11.4	10.0	9.6	11.4	11.4	12.8
61.5°	9.1	7.3	6.8	8.7	9.1	10.5
62°	7.3	5.9	5.9	5.9	6.8	8.2
62.5°	5.9	5.0	4.6	5.0	5.5	5.9
63°	5.0	4.1	4.1	4.1	4.6	5.0
63.5°	4.1	3.6	3.2	3.2	3.6	4.1
64°	3.6	3.2	2.7	2.7	3.2	3.2
64.5°	3.2	2.7	2.3	2.3	2.7	2.7
65°	2.7	2.3	1.8	2.3	2.3	2.3
65.5°	2.3	1.8	1.8	1.8	1.8	2.3
66°	1.8	1.8	1.4	1.4	1.8	1.8



TEST NUMBER: P776700
 CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-5000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.4	1.4	0.9	0.9	1.4	1.4
68°	1.4	0.9	0.9	0.9	0.9	0.9
68.5°	0.9	0.9	0.9	0.9	0.9	0.9
69°	0.9	0.9	0.9	0.9	0.9	0.9
69.5°	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.5	0.5	0.5	0.5
70.5°	0.9	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: P776700

CATALOG NUMBER: HCDJBL54050CSD-HCD6TRH-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



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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Scaled Data Report



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Scaled Data Report





21.5°	3401.7	3456.3	3501.0	3511.4	3501.4	3477.7	3428.1	3362.0	3310.1	3273.6	3244.9
22°	3368.9	3423.5	3468.2	3479.1	3470.4	3446.3	3394.8	3329.2	3274.1	3237.2	3207.6



44°	1160.8	1249.6	1326.1	1358.5	1385.8	1335.7	1276.9	1203.6	1115.2	1043.2	979.5
44.5°	1102.5	1189.5	1261.0	1296.1	1322.9	1273.3	1215.4	1143.5	1061.9	989.0	927.5



66.5°	1.4	1.8	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.8	1.8
67°	1.4	1.8	1.8	1.8	2.3	2.3	2.3	1.8	1.8	1.8	1.8



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°	3220.8	3188.0	3219.9	3277.7	3344.7	3401.7
22°	3184.8	3152.0	3184.4	3241.8	3309.2	3368.9



44°	957.6	923.9	941.2	979.0	1055.1	1160.8
44.5°	904.7	869.2	885.6	920.7	997.7	1102.5

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66.5°	1.8	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)