

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: P776799

Luminaire Tested: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776799
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-HCD8TRC-5000lm-5000K
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

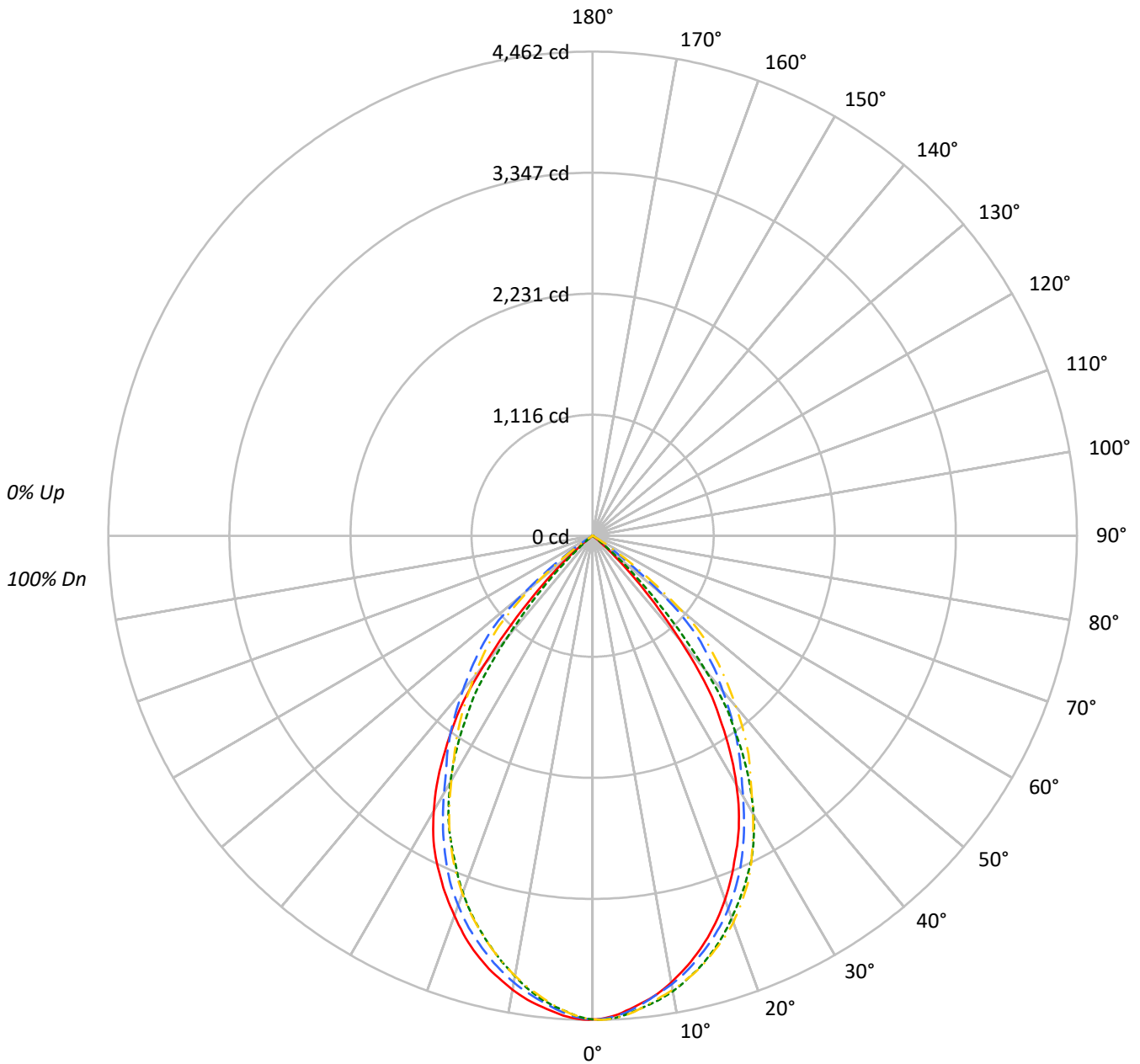
Lumens per Lamp: N/A
Luminaire Lumens: 5292.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78																			
4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65																			
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51																			
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47																			
10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	54	49	45	44																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	136092	136092	136092	136092
5°	133636	134782	134647	132980
10°	129505	132124	131675	127790
15°	123641	127817	127295	121277
20°	115894	121761	120972	113636
25°	106112	114648	113618	104246
30°	93450	104508	103222	92420
35°	75756	88424	86960	75197
40°	49754	64481	61870	49057
45°	21847	33125	31070	21364
50°	4773	9618	8578	4612
55°	623	931	852	596
60°	507	739	684	476
65°	419	628	563	383
70°	348	518	473	303
75°	283	460	401	283
80°	264	422	334	264
85°	175	350	350	175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 69419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	7.8
10°-20°	1107.5	20.9
20°-30°	1489.7	28.1
30°-40°	1407.5	26.6
40°-50°	755.4	14.3
50°-60°	109.3	2.1
60°-70°	7.2	0.1
70°-80°	3.3	0.1
80°-90°	0.8	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°	3008.6	56.9
0°-40°	4416.2	83.4
0°-60°	5280.9	99.8
0°-90°	5292.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5292.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4458	4458	4458	4458	4458	
5°	4360	4398	4394	4339	4360	411
15°	3912	4044	4027	3837	3912	1096
25°	3150	3403	3373	3095	3150	1439
35°	2033	2372	2333	2018	2033	1245
45°	506	767	720	495	506	420
55°	12	18	16	11	12	19
65°	6	9	8	5	6	6
75°	2	4	3	2	2	3
85°	0	1	1	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6
0.5°	4457.1	4457.6	4457.1	4458.1	4459.1	4460.0	4460.5	4462.0	4461.0	4458.6	4454.7
1°	4452.8	4454.2	4454.7	4457.6	4460.0	4461.0	4462.0	4462.0	4460.0	4455.7	4449.8
1.5°	4446.0	4449.4	4450.3	4454.2	4458.1	4460.0	4460.5	4460.5	4456.6	4451.3	4444.5
2°	4438.2	4443.0	4444.5	4449.4	4455.2	4456.6	4457.1	4457.1	4452.3	4445.0	4436.7
2.5°	4429.0	4434.8	4436.7	4443.0	4450.3	4451.8	4452.8	4452.3	4446.0	4436.7	4427.5
3°	4417.3	4424.1	4427.5	4434.3	4443.0	4445.5	4446.0	4445.0	4438.7	4428.0	4416.3
3.5°	4404.7	4412.0	4416.3	4424.1	4434.3	4437.2	4437.7	4436.3	4429.0	4416.8	4403.7
4°	4389.1	4397.9	4404.2	4412.9	4423.6	4427.0	4428.0	4426.5	4417.8	4404.2	4389.1
4.5°	4375.6	4384.3	4390.1	4398.4	4411.0	4415.4	4416.8	4414.4	4405.7	4390.6	4373.6
5°	4360.5	4371.2	4374.1	4383.8	4397.9	4401.8	4403.7	4401.8	4393.5	4376.0	4357.1
5.5°	4345.4	4355.6	4357.6	4367.3	4384.8	4388.2	4388.7	4388.2	4382.4	4361.5	4341.1
6°	4329.9	4339.6	4340.6	4352.7	4373.1	4375.1	4373.1	4376.5	4369.7	4347.4	4324.6
6.5°	4316.3	4324.6	4322.6	4337.2	4361.5	4362.4	4357.6	4362.9	4358.1	4332.3	4307.6
7°	4301.3	4310.0	4304.2	4321.7	4349.3	4349.3	4340.6	4349.8	4345.9	4317.8	4291.5
7.5°	4283.3	4293.5	4285.7	4307.1	4338.2	4336.7	4324.6	4335.2	4331.4	4301.7	4274.6
8°	4265.3	4276.0	4268.2	4292.0	4325.1	4323.6	4310.0	4319.7	4316.8	4285.2	4256.6
8.5°	4246.4	4257.1	4250.3	4276.0	4311.0	4310.0	4294.0	4303.2	4301.3	4267.3	4238.6
9°	4224.1	4236.7	4232.8	4257.6	4294.5	4294.0	4279.9	4286.7	4283.8	4249.8	4220.7
9.5°	4201.2	4214.8	4214.8	4239.6	4278.9	4278.0	4264.8	4267.8	4266.3	4231.8	4201.2
10°	4177.4	4192.0	4196.9	4220.7	4261.9	4261.4	4248.8	4248.3	4247.4	4212.4	4180.8
10.5°	4152.7	4167.7	4177.4	4201.7	4243.5	4244.0	4233.3	4228.4	4227.5	4193.0	4159.0
11°	4127.9	4141.0	4157.5	4180.4	4224.5	4224.5	4215.8	4208.0	4206.1	4171.1	4136.6
11.5°	4104.1	4114.8	4136.2	4159.0	4202.7	4204.6	4197.3	4185.7	4185.7	4149.3	4113.3
12°	4079.3	4089.1	4112.9	4135.7	4180.4	4182.8	4178.9	4163.4	4165.8	4126.9	4089.5
12.5°	4054.1	4063.3	4088.6	4112.4	4159.0	4159.5	4160.0	4141.0	4145.4	4106.1	4064.8
13°	4027.9	4036.6	4065.3	4088.1	4138.1	4136.2	4141.0	4120.6	4125.5	4084.7	4041.0
13.5°	3999.2	4010.4	4038.6	4065.3	4117.7	4114.8	4120.6	4099.7	4102.2	4064.3	4014.3
14°	3970.6	3982.7	4013.3	4042.4	4095.4	4093.4	4099.7	4079.8	4077.4	4042.4	3987.1
14.5°	3941.0	3953.6	3986.1	4019.6	4069.6	4071.1	4076.9	4057.5	4053.1	4018.2	3959.9
15°	3911.8	3923.5	3959.9	3995.3	4043.9	4047.8	4053.1	4033.7	4027.4	3992.4	3931.7
15.5°	3881.2	3894.3	3931.7	3968.6	4017.2	4022.1	4027.9	4008.9	4001.7	3966.2	3904.5
16°	3850.2	3863.8	3906.5	3941.4	3991.5	3996.3	4002.6	3985.6	3974.5	3939.0	3876.9
16.5°	3817.6	3833.6	3878.3	3913.8	3965.2	3969.1	3977.9	3959.4	3946.8	3911.8	3849.7
17°	3784.1	3802.1	3848.7	3885.1	3937.1	3943.4	3953.1	3933.7	3918.6	3882.7	3819.6
17.5°	3750.1	3771.5	3817.6	3856.0	3908.9	3915.7	3928.8	3907.0	3888.0	3853.1	3790.9
18°	3714.7	3738.5	3789.5	3826.4	3878.3	3888.0	3905.5	3879.8	3855.5	3821.5	3758.4
18.5°	3678.3	3704.5	3757.4	3796.3	3847.2	3858.4	3878.8	3851.1	3823.0	3789.0	3725.4
19°	3641.8	3670.5	3724.9	3764.2	3815.2	3827.8	3851.1	3820.5	3790.9	3755.5	3691.9
19.5°	3604.9	3636.0	3691.4	3730.2	3781.2	3796.7	3821.0	3789.0	3756.4	3722.0	3657.4
20°	3567.1	3599.6	3657.4	3696.2	3747.7	3764.2	3790.4	3756.9	3723.4	3687.5	3622.4
20.5°	3528.7	3563.2	3621.0	3660.8	3714.7	3731.2	3757.4	3723.9	3690.4	3651.6	3587.5
21°	3487.9	3526.3	3583.6	3624.8	3681.2	3697.2	3725.4	3690.9	3656.9	3615.6	3552.5



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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°	3362.6	3408.3	3470.4	3513.2	3580.7	3597.2	3619.5	3589.9	3556.4	3508.3	3438.9
23°	3317.5	3365.5	3429.2	3474.8	3546.7	3563.7	3583.1	3555.9	3522.9	3469.9	3397.6
23.5°	3273.8	3323.8	3388.9	3438.4	3513.2	3530.2	3546.7	3521.9	3483.1	3431.6	3355.4
24°	3231.0	3278.6	3346.1	3400.5	3475.3	3492.8	3510.3	3483.5	3445.2	3392.7	3311.6
24.5°	3190.3	3235.9	3301.9	3363.1	3438.9	3456.8	3468.5	3445.2	3408.3	3353.4	3267.5
25°	3150.0	3194.1	3257.7	3324.3	3403.4	3419.0	3425.8	3406.3	3372.8	3313.6	3221.3
25.5°	3106.7	3153.4	3212.1	3284.9	3369.4	3380.1	3381.1	3365.5	3336.9	3275.7	3175.7
26°	3062.1	3115.5	3166.0	3245.6	3332.0	3342.7	3336.4	3326.2	3299.0	3239.3	3129.1
26.5°	3016.4	3076.1	3119.4	3206.8	3291.3	3306.8	3288.3	3287.9	3258.2	3202.9	3082.0
27°	2968.3	3034.9	3070.3	3169.9	3249.5	3272.8	3239.8	3251.9	3215.5	3166.0	3034.9
27.5°	2919.3	2991.7	3021.8	3133.4	3206.3	3236.4	3192.7	3215.5	3171.8	3127.1	2986.8
28°	2867.3	2945.5	2970.8	3094.1	3161.1	3198.0	3145.6	3177.6	3126.2	3085.9	2938.2
28.5°	2815.9	2900.4	2921.2	3053.8	3114.5	3158.2	3098.0	3135.9	3079.5	3043.6	2889.7
29°	2761.5	2853.7	2870.7	3009.6	3065.5	3116.0	3052.3	3095.6	3030.5	2999.4	2840.2
29.5°	2707.1	2805.7	2820.2	2965.4	3015.4	3072.7	3002.8	3050.9	2979.0	2953.3	2788.2
30°	2650.8	2755.2	2771.2	2919.3	2964.5	3027.6	2955.7	3005.2	2928.0	2905.7	2735.8
30.5°	2593.5	2702.2	2722.6	2871.2	2911.0	2980.0	2906.2	2958.1	2874.1	2855.2	2685.7
31°	2531.3	2649.3	2674.6	2821.7	2857.1	2931.4	2857.1	2910.1	2821.2	2804.7	2637.7
31.5°	2476.0	2596.9	2629.9	2770.7	2800.8	2880.9	2807.1	2858.6	2764.9	2752.3	2591.5
32°	2414.3	2543.0	2585.2	2719.2	2744.5	2829.5	2760.5	2808.1	2709.0	2699.8	2548.8
32.5°	2354.1	2487.1	2541.0	2667.8	2686.7	2777.0	2714.9	2755.2	2648.3	2646.4	2507.0
33°	2289.5	2431.8	2496.8	2615.8	2628.0	2723.6	2672.6	2701.8	2589.1	2592.5	2468.2
33.5°	2229.3	2375.0	2452.2	2562.4	2566.8	2669.2	2631.8	2646.9	2526.0	2535.2	2428.4
34°	2163.3	2317.2	2409.4	2508.0	2503.6	2615.3	2592.5	2591.0	2462.4	2479.4	2388.6
34.5°	2099.2	2257.9	2366.7	2452.2	2437.6	2557.5	2552.7	2535.2	2396.8	2419.6	2346.3
35°	2032.6	2197.7	2323.5	2397.8	2372.5	2498.8	2513.4	2477.9	2333.2	2360.9	2305.5
35.5°	1971.9	2137.0	2279.8	2341.0	2308.0	2439.5	2471.6	2420.6	2266.7	2300.7	2261.3
36°	1909.8	2076.3	2233.2	2282.7	2242.4	2380.3	2428.4	2360.9	2202.1	2240.0	2218.1
36.5°	1850.1	2014.2	2187.0	2224.0	2178.3	2317.2	2384.2	2300.2	2139.9	2177.8	2173.0
37°	1772.4	1954.5	2140.4	2163.7	2116.2	2254.1	2338.5	2239.5	2077.3	2117.1	2127.8
37.5°	1685.4	1895.7	2094.3	2104.0	2056.9	2190.9	2291.0	2178.8	2004.0	2055.0	2081.7
38°	1598.5	1837.9	2046.7	2043.8	1981.6	2128.8	2243.4	2118.6	1927.3	1995.2	2037.0
38.5°	1512.1	1779.2	1999.6	1985.0	1900.1	2068.6	2196.3	2057.9	1839.9	1936.5	1992.3
39°	1425.2	1699.5	1954.9	1930.2	1813.2	2010.3	2149.2	2001.6	1748.1	1878.7	1948.1
39.5°	1338.3	1618.9	1909.3	1873.4	1715.1	1955.4	2100.6	1944.3	1649.0	1812.2	1903.0
40°	1248.4	1538.3	1865.6	1820.4	1617.9	1886.0	2053.5	1885.5	1552.4	1737.9	1859.3
40.5°	1159.1	1457.7	1820.0	1757.8	1521.8	1811.2	2007.4	1823.3	1458.7	1657.8	1816.1
41°	1077.0	1377.1	1776.7	1679.1	1429.5	1730.6	1961.3	1750.5	1368.4	1573.3	1773.3
41.5°	995.0	1291.6	1752.9	1600.0	1341.2	1641.7	1916.6	1673.3	1281.4	1485.9	1732.1
42°	919.7	1209.6	1705.8	1520.8	1252.3	1551.4	1870.5	1590.8	1192.6	1399.9	1689.8
42.5°	846.4	1127.5	1658.3	1442.2	1169.8	1462.6	1827.2	1506.8	1109.1	1318.8	1649.5
43°	775.5	1045.5	1611.2	1363.0	1080.4	1377.6	1784.0	1423.7	1023.1	1238.7	1609.2
43.5°	702.1	967.3	1563.6	1282.9	998.4	1295.5	1739.8	1342.1	941.1	1162.5	1567.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	506.0	755.6	1438.8	1059.5	767.2	1053.7	1607.8	1112.0	719.6	931.8	1443.1
45.5°	446.2	686.6	1397.5	984.8	699.2	974.6	1563.1	1034.8	652.1	860.0	1402.8
46°	391.4	621.1	1352.3	914.8	628.8	898.8	1519.4	958.5	586.6	788.1	1362.0
46.5°	337.0	557.0	1298.9	842.5	566.2	826.9	1476.6	885.2	524.4	725.0	1314.9
47°	287.0	497.2	1237.3	775.0	509.9	757.0	1436.8	813.8	470.0	658.0	1269.3
47.5°	240.4	439.4	1174.1	708.0	454.0	688.1	1385.8	745.8	415.7	596.8	1215.9
48°	201.5	384.6	1111.5	646.8	398.2	622.5	1335.3	679.3	360.8	534.6	1163.4
48.5°	167.5	332.6	1051.3	583.7	341.8	559.4	1277.6	615.7	306.9	480.7	1093.0
49°	144.7	284.1	981.4	524.9	286.5	503.5	1208.1	553.1	261.2	426.3	1017.8
49.5°	122.9	238.9	910.5	466.6	242.3	448.7	1136.3	499.2	220.0	372.4	937.2
50°	100.5	198.1	833.3	411.8	202.5	393.3	1057.6	444.8	180.6	318.5	858.5
50.5°	78.7	162.2	755.6	357.9	166.1	338.4	979.9	390.9	146.2	272.9	783.7
51°	61.2	140.3	679.8	310.3	133.5	283.1	901.2	337.0	115.6	231.1	711.4
51.5°	44.2	118.5	608.9	264.6	106.3	239.9	825.0	283.1	96.1	193.3	641.4
52°	27.7	96.1	541.9	222.9	88.9	200.1	747.8	238.9	76.2	156.4	572.5
52.5°	17.0	74.3	478.8	185.0	71.4	162.7	676.4	198.1	56.8	123.8	515.2
53°	15.1	57.3	418.1	157.3	53.4	130.6	605.0	161.7	36.9	95.7	457.4
53.5°	14.1	41.3	361.3	130.1	35.9	103.4	538.0	128.2	18.0	79.1	400.1
54°	13.1	25.3	309.3	102.5	18.9	85.5	479.3	99.1	17.0	62.6	342.3
54.5°	12.1	14.1	262.2	74.8	18.0	68.0	420.5	82.1	16.5	46.1	285.0
55°	11.7	13.1	219.5	47.6	17.5	50.5	362.2	65.1	16.0	29.6	241.3
55.5°	11.2	12.1	181.6	27.7	16.5	33.0	303.5	47.6	15.5	13.6	201.5
56°	10.7	11.7	155.9	15.1	16.0	15.5	255.4	30.6	15.1	13.1	165.1
56.5°	10.7	10.7	130.6	14.1	15.5	14.6	211.2	14.1	14.6	12.6	133.5
57°	10.2	10.2	104.9	13.6	15.1	14.1	171.9	13.6	14.1	12.1	105.9
57.5°	9.7	10.2	79.6	13.1	14.6	13.6	136.9	13.1	13.6	12.1	83.5
58°	9.2	9.7	54.4	12.6	14.1	13.1	106.8	13.1	13.1	11.7	70.4
58.5°	9.2	9.2	41.8	12.1	13.6	12.6	82.1	12.6	12.6	11.2	57.8
59°	8.7	9.2	32.0	11.7	13.1	12.6	69.0	12.1	12.1	10.7	44.7
59.5°	8.7	8.7	24.8	11.2	12.6	12.1	56.3	11.7	11.7	10.7	32.0
60°	8.3	8.7	18.9	11.2	12.1	11.7	44.2	11.2	11.2	10.2	19.4
60.5°	7.8	8.3	16.0	10.7	11.7	11.2	31.6	11.2	11.2	9.7	14.6
61°	7.8	8.3	13.6	10.2	11.7	10.7	18.9	10.7	10.7	9.7	10.7
61.5°	7.3	7.8	11.2	10.2	11.2	10.7	14.1	10.2	10.2	9.2	8.7
62°	7.3	7.8	8.3	9.7	10.7	10.2	11.2	10.2	9.7	8.7	7.8
62.5°	6.8	7.3	8.3	9.2	10.2	9.7	9.2	9.7	9.7	8.7	7.8
63°	6.8	7.3	7.8	9.2	10.2	9.7	8.7	9.2	9.2	8.3	7.3
63.5°	6.3	6.8	7.8	8.7	9.7	9.2	8.7	9.2	8.7	8.3	7.3
64°	6.3	6.8	7.3	8.7	9.2	9.2	8.3	8.7	8.7	7.8	6.8
64.5°	5.8	6.3	7.3	8.3	9.2	8.7	8.3	8.3	8.3	7.8	6.8
65°	5.8	6.3	6.8	7.8	8.7	8.3	7.8	8.3	7.8	7.3	6.3
65.5°	5.3	6.3	6.8	7.8	8.3	8.3	7.8	7.8	7.8	7.3	6.3
66°	5.3	5.8	6.3	7.3	8.3	7.8	7.3	7.8	7.3	6.8	5.8



TEST NUMBER: P776799

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	4.9	5.3	5.8	6.8	7.3	7.3	6.8	6.8	6.3	6.3	5.3
68°	4.4	4.9	5.8	6.3	6.8	6.8	6.3	6.3	6.3	5.8	5.3
68.5°	4.4	4.9	5.3	6.3	6.8	6.8	6.3	6.3	5.8	5.8	4.9
69°	4.4	4.4	5.3	5.8	6.3	6.3	5.8	5.8	5.8	5.3	4.9
69.5°	3.9	4.4	4.9	5.8	6.3	6.3	5.8	5.8	5.3	5.3	4.9
70°	3.9	4.4	4.9	5.3	5.8	5.8	5.3	5.3	5.3	4.9	4.4
70.5°	3.9	3.9	4.4	5.3	5.8	5.8	5.3	5.3	5.3	4.9	4.4
71°	3.4	3.9	4.4	4.9	5.8	5.3	4.9	4.9	4.9	4.9	3.9
71.5°	3.4	3.9	4.4	4.9	5.3	5.3	4.9	4.9	4.9	4.4	3.9
72°	3.4	3.4	3.9	4.9	5.3	4.9	4.4	4.9	4.4	4.4	3.9
72.5°	3.4	3.4	3.9	4.4	4.9	4.9	4.4	4.4	4.4	3.9	3.4
73°	2.9	3.4	3.4	4.4	4.9	4.9	3.9	4.4	4.4	3.9	3.4
73.5°	2.9	3.4	3.4	3.9	4.4	4.4	3.9	3.9	3.9	3.9	2.9
74°	2.9	2.9	3.4	3.9	4.4	4.4	3.9	3.9	3.9	3.4	2.9
74.5°	2.9	2.9	2.9	3.9	4.4	4.4	3.4	3.9	3.9	3.4	2.9
75°	2.4	2.9	2.9	3.4	3.9	3.9	3.4	3.4	3.4	3.4	2.4
75.5°	2.4	2.4	2.9	3.4	3.9	3.9	2.9	3.4	3.4	2.9	2.4
76°	2.4	2.4	2.4	3.4	3.9	3.4	2.9	3.4	3.4	2.9	2.4
76.5°	2.4	2.4	2.4	2.9	3.4	3.4	2.9	2.9	2.9	2.9	2.4
77°	1.9	2.4	2.4	2.9	3.4	3.4	2.4	2.9	2.9	2.4	1.9
77.5°	1.9	1.9	1.9	2.9	3.4	2.9	2.4	2.9	2.9	2.4	1.9
78°	1.9	1.9	1.9	2.4	2.9	2.9	2.4	2.4	2.4	2.4	1.9
78.5°	1.9	1.9	1.9	2.4	2.9	2.9	1.9	2.4	2.4	2.4	1.9
79°	1.9	1.9	1.9	2.4	2.9	2.4	1.9	2.4	2.4	1.9	1.5
79.5°	1.5	1.5	1.5	2.4	2.4	2.4	1.9	1.9	2.4	1.9	1.5
80°	1.5	1.5	1.5	1.9	2.4	2.4	1.9	1.9	1.9	1.9	1.5
80.5°	1.5	1.5	1.5	1.9	2.4	1.9	1.5	1.9	1.9	1.5	1.5
81°	1.5	1.5	1.5	1.9	1.9	1.9	1.5	1.5	1.9	1.5	1.0
81.5°	1.0	1.5	1.0	1.5	1.9	1.9	1.5	1.5	1.9	1.5	1.0
82°	1.0	1.0	1.0	1.5	1.9	1.9	1.5	1.5	1.5	1.5	1.0
82.5°	1.0	1.0	1.0	1.5	1.9	1.5	1.0	1.5	1.5	1.0	1.0
83°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.5	1.0	1.0
83.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.5	1.0	0.5
84°	0.5	0.5	0.5	1.0	1.5	1.0	1.0	1.0	1.0	1.0	0.5
84.5°	0.5	0.5	0.5	1.0	1.5	1.0	1.0	1.0	1.0	0.5	0.5
85°	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	1.0	0.5	0.5
85.5°	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	1.0	0.5	0.5
86°	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
86.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	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: P776799
CATALOG NUMBER: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

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: P776799

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6
0.5°	4453.7	4450.8	4451.8	4452.8	4455.2	4457.1
1°	4448.4	4444.5	4443.5	4446.0	4449.8	4452.8
1.5°	4440.6	4434.8	4434.3	4436.7	4442.1	4446.0
2°	4431.4	4424.1	4422.2	4425.6	4431.9	4438.2
2.5°	4420.7	4411.0	4409.1	4412.9	4420.7	4429.0
3°	4407.6	4396.9	4395.5	4398.9	4408.1	4417.3
3.5°	4393.5	4382.8	4379.0	4383.8	4393.0	4404.7
4°	4379.4	4368.8	4364.9	4365.8	4377.0	4389.1
4.5°	4365.8	4354.7	4348.8	4347.9	4359.5	4375.6
5°	4351.3	4339.1	4332.3	4330.4	4342.5	4360.5
5.5°	4335.7	4322.1	4314.4	4311.0	4324.6	4345.4
6°	4318.7	4306.1	4296.4	4291.1	4305.1	4329.9
6.5°	4301.7	4287.2	4278.0	4271.6	4286.7	4316.3
7°	4284.3	4268.2	4256.6	4251.2	4269.2	4301.3
7.5°	4264.4	4245.9	4234.7	4229.9	4249.8	4283.3
8°	4243.0	4223.6	4211.9	4209.5	4229.9	4265.3
8.5°	4219.7	4199.3	4186.7	4186.2	4209.0	4246.4
9°	4195.9	4174.0	4161.4	4163.8	4187.1	4224.1
9.5°	4170.6	4148.8	4134.2	4141.0	4164.3	4201.2
10°	4144.9	4122.1	4108.0	4117.2	4140.0	4177.4
10.5°	4119.2	4094.9	4079.3	4092.9	4114.8	4152.7
11°	4092.0	4068.2	4050.7	4067.7	4089.1	4127.9
11.5°	4064.8	4042.0	4022.1	4041.5	4063.3	4104.1
12°	4038.1	4014.8	3995.3	4014.3	4036.6	4079.3
12.5°	4012.3	3985.6	3967.2	3986.6	4010.9	4054.1
13°	3986.1	3956.5	3940.0	3958.4	3984.7	4027.9
13.5°	3957.5	3926.9	3908.9	3929.3	3958.9	3999.2
14°	3930.3	3896.8	3878.3	3898.7	3932.2	3970.6
14.5°	3900.7	3867.2	3847.2	3869.1	3904.1	3941.0
15°	3872.0	3837.0	3817.6	3839.5	3874.4	3911.8
15.5°	3841.9	3806.0	3786.1	3809.4	3843.8	3881.2
16°	3812.8	3773.9	3755.0	3778.8	3813.3	3850.2
16.5°	3782.7	3742.8	3722.9	3747.2	3782.2	3817.6
17°	3752.1	3709.8	3691.4	3716.6	3750.1	3784.1
17.5°	3720.5	3675.8	3658.8	3683.6	3717.6	3750.1
18°	3688.9	3640.9	3624.8	3650.6	3683.6	3714.7
18.5°	3655.0	3606.9	3591.3	3617.1	3648.6	3678.3
19°	3621.0	3570.9	3555.9	3581.1	3613.2	3641.8
19.5°	3587.0	3534.5	3520.4	3546.2	3576.3	3604.9
20°	3553.0	3497.6	3483.5	3509.8	3537.4	3567.1
20.5°	3518.5	3458.8	3447.6	3472.4	3499.1	3528.7
21°	3481.6	3419.4	3410.7	3434.0	3459.8	3487.9

TEST NUMBER: P776799

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3363.6	3294.7	3292.2	3316.5	3337.9	3362.6
23°	3323.3	3251.4	3251.4	3274.3	3295.1	3317.5
23.5°	3280.1	3212.6	3207.7	3233.5	3252.4	3273.8
24°	3236.9	3173.3	3164.5	3188.8	3208.7	3231.0
24.5°	3191.7	3133.9	3124.2	3145.1	3162.6	3190.3
25°	3149.5	3094.6	3084.4	3099.5	3115.5	3150.0
25.5°	3108.2	3054.8	3047.5	3055.3	3071.8	3106.7
26°	3069.8	3013.5	3008.2	3007.2	3028.6	3062.1
26.5°	3032.4	2970.3	2969.3	2959.6	2988.3	3016.4
27°	2995.1	2925.1	2930.5	2910.6	2947.0	2968.3
27.5°	2955.7	2877.5	2889.2	2860.1	2903.8	2919.3
28°	2915.4	2828.0	2847.4	2808.6	2860.1	2867.3
28.5°	2872.7	2778.5	2803.2	2758.1	2814.9	2815.9
29°	2829.0	2728.0	2757.6	2706.1	2767.8	2761.5
29.5°	2782.9	2674.6	2711.0	2655.1	2718.8	2707.1
30°	2736.7	2621.6	2661.9	2603.7	2668.7	2650.8
30.5°	2688.2	2566.3	2611.9	2555.1	2617.8	2593.5
31°	2640.1	2509.5	2560.0	2506.6	2565.3	2531.3
31.5°	2588.6	2451.7	2508.0	2459.5	2511.9	2476.0
32°	2539.1	2393.9	2455.1	2411.9	2457.5	2414.3
32.5°	2487.1	2332.7	2402.2	2367.7	2402.6	2354.1
33°	2434.2	2272.0	2346.3	2323.5	2347.8	2289.5
33.5°	2381.3	2209.4	2288.5	2281.3	2292.4	2229.3
34°	2327.4	2145.3	2231.7	2239.0	2237.1	2163.3
34.5°	2270.6	2081.2	2170.5	2194.8	2178.8	2099.2
35°	2215.2	2017.6	2110.3	2150.1	2121.5	2032.6
35.5°	2158.9	1957.4	2049.6	2105.5	2064.2	1971.9
36°	2102.1	1899.1	1988.9	2058.4	2005.9	1909.8
36.5°	2043.3	1839.4	1927.3	2012.2	1948.1	1850.1
37°	1985.0	1763.6	1868.5	1967.1	1889.4	1772.4
37.5°	1927.3	1674.8	1810.2	1921.4	1831.1	1685.4
38°	1870.5	1585.9	1759.3	1875.8	1773.3	1598.5
38.5°	1817.0	1497.5	1680.1	1829.7	1711.2	1512.1
39°	1767.5	1408.7	1600.5	1786.4	1649.0	1425.2
39.5°	1713.6	1319.8	1520.8	1736.4	1586.4	1338.3
40°	1645.1	1230.9	1441.7	1696.6	1524.2	1248.4
40.5°	1566.5	1143.1	1362.5	1656.3	1461.6	1159.1
41°	1486.8	1059.0	1282.9	1616.0	1387.3	1077.0
41.5°	1407.7	977.5	1201.3	1575.7	1313.5	995.0
42°	1331.0	902.7	1119.7	1534.9	1240.7	919.7
42.5°	1253.3	831.3	1039.1	1493.6	1164.4	846.4
43°	1174.6	759.4	962.4	1453.3	1088.7	775.5
43.5°	1094.5	688.1	889.6	1412.1	1013.9	702.1



TEST NUMBER: P776799

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	873.6	494.8	687.6	1295.0	808.5	506.0
45.5°	805.6	437.5	622.5	1248.9	744.4	446.2
46°	738.1	382.2	561.8	1198.4	681.3	391.4
46.5°	672.5	329.2	502.1	1134.8	616.2	337.0
47°	608.9	279.2	446.2	1073.6	557.0	287.0
47.5°	546.8	235.0	390.4	1014.9	497.7	240.4
48°	492.9	196.7	338.4	953.7	442.4	201.5
48.5°	439.0	164.1	289.9	888.1	387.5	167.5
49°	385.5	141.3	245.2	812.4	338.0	144.7
49.5°	331.7	119.0	205.4	737.1	287.9	122.9
50°	277.8	97.1	170.0	668.6	243.3	100.5
50.5°	233.6	75.3	147.6	602.1	202.5	78.7
51°	194.2	57.8	125.8	540.9	168.0	61.2
51.5°	160.2	40.8	103.4	481.7	146.2	44.2
52°	132.1	24.8	81.6	425.9	124.3	27.7
52.5°	108.3	14.6	59.2	373.4	102.5	17.0
53°	88.4	13.6	42.2	324.4	80.6	15.1
53.5°	73.3	13.1	26.2	277.8	59.2	14.1
54°	58.3	12.1	14.6	237.0	42.2	13.1
54.5°	42.7	11.7	13.6	199.6	26.7	12.1
55°	27.7	11.2	12.1	165.6	15.1	11.7
55.5°	12.6	10.7	11.2	140.8	13.6	11.2
56°	10.2	10.2	10.2	116.1	12.1	10.7
56.5°	10.2	10.2	9.7	91.3	10.7	10.7
57°	9.7	9.7	9.2	66.5	9.7	10.2
57.5°	9.2	9.2	9.2	50.5	9.2	9.7
58°	9.2	9.2	8.7	38.4	8.7	9.2
58.5°	8.7	8.7	8.7	28.2	8.7	9.2
59°	8.7	8.3	8.3	20.9	8.3	8.7
59.5°	8.3	8.3	8.3	18.5	8.3	8.7
60°	8.3	7.8	7.8	15.5	7.8	8.3
60.5°	7.8	7.8	7.8	12.6	7.8	7.8
61°	7.8	7.3	7.3	9.7	7.3	7.8
61.5°	7.3	7.3	7.3	7.3	7.3	7.3
62°	7.3	6.8	6.8	6.8	6.8	7.3
62.5°	6.8	6.8	6.8	6.8	6.8	6.8
63°	6.8	6.3	6.3	6.3	6.8	6.8
63.5°	6.3	5.8	6.3	6.3	6.3	6.3
64°	6.3	5.8	5.8	6.3	6.3	6.3
64.5°	5.8	5.3	5.8	5.8	5.8	5.8
65°	5.8	5.3	5.8	5.8	5.8	5.8
65.5°	5.8	5.3	5.3	5.3	5.8	5.3
66°	5.3	4.9	5.3	5.3	5.3	5.3



TEST NUMBER: P776799

CATALOG NUMBER: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	4.9	4.4	4.9	4.9	4.9	4.9
68°	4.4	4.4	4.4	4.9	4.9	4.4
68.5°	4.4	3.9	4.4	4.4	4.4	4.4
69°	4.4	3.9	4.4	4.4	4.4	4.4
69.5°	3.9	3.9	3.9	4.4	4.4	3.9
70°	3.9	3.4	3.9	3.9	3.9	3.9
70.5°	3.9	3.4	3.9	3.9	3.9	3.9
71°	3.4	3.4	3.4	3.4	3.9	3.4
71.5°	3.4	3.4	3.4	3.4	3.4	3.4
72°	3.4	2.9	3.4	3.4	3.4	3.4
72.5°	3.4	2.9	2.9	2.9	3.4	3.4
73°	2.9	2.9	2.9	2.9	3.4	2.9
73.5°	2.9	2.9	2.9	2.9	2.9	2.9
74°	2.9	2.4	2.9	2.4	2.9	2.9
74.5°	2.4	2.4	2.4	2.4	2.9	2.9
75°	2.4	2.4	2.4	2.4	2.4	2.4
75.5°	2.4	2.4	2.4	2.4	2.4	2.4
76°	2.4	1.9	2.4	1.9	2.4	2.4
76.5°	2.4	1.9	1.9	1.9	2.4	2.4
77°	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9
78°	1.9	1.9	1.9	1.5	1.9	1.9
78.5°	1.9	1.9	1.9	1.5	1.9	1.9
79°	1.5	1.5	1.5	1.5	1.9	1.9
79.5°	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5
80.5°	1.5	1.5	1.5	1.0	1.5	1.5
81°	1.5	1.5	1.5	1.0	1.5	1.5
81.5°	1.0	1.0	1.0	1.0	1.0	1.0
82°	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0
83°	1.0	1.0	1.0	0.5	1.0	1.0
83.5°	1.0	1.0	1.0	0.5	0.5	1.0
84°	0.5	1.0	0.5	0.5	0.5	0.5
84.5°	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5	0.5
85.5°	0.5	0.5	0.5	0.5	0.5	0.5
86°	0.5	0.5	0.5	0.5	0.5	0.5
86.5°	0.5	0.5	0.5	0.0	0.0	0.5
87°	0.0	0.5	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: P776799
CATALOG NUMBER: HCDJBL54050CSD-HCD8TRC-5000lm-5000K

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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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°	3447.6	3487.4	3546.7	3587.5	3647.7	3663.7	3692.3	3657.4	3623.4	3579.7	3517.5
22°	3406.3	3448.6	3508.8	3549.6	3614.2	3630.2	3656.4	3623.4	3589.9	3544.2	3479.2



44°	633.2	895.4	1521.3	1208.1	914.8	1214.9	1696.1	1263.5	861.9	1083.3	1526.7
44.5°	567.2	824.5	1478.6	1132.9	842.0	1135.8	1651.5	1188.2	788.6	1008.1	1484.9



66.5°	4.9	5.8	6.3	7.3	7.8	7.8	6.8	7.3	6.8	6.8	5.8
67°	4.9	5.3	6.3	6.8	7.3	7.3	6.8	6.8	6.8	6.3	5.8



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°	3443.7	3379.6	3370.9	3396.6	3420.4	3447.6
22°	3403.9	3336.9	3331.1	3356.8	3379.6	3406.3



44°	1016.8	621.5	822.1	1371.3	941.1	633.2
44.5°	944.0	555.5	754.1	1330.5	873.6	567.2

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Scaled Data Report



66.5°	5.3	4.9	4.9	5.3	5.3	4.9
67°	4.9	4.4	4.9	4.9	4.9	4.9

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1121 Highway 74 South
Peachtree City, GA 30269

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)